

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\Users\sbsuser\Desktop\2023-01-18\QC1392.xad

Created: 1/18/2023 1:11:22 PM  
Modified: 1/18/2023 2:50:51 PM

**Electrophoresis File Run Summary**

Instrument Information:

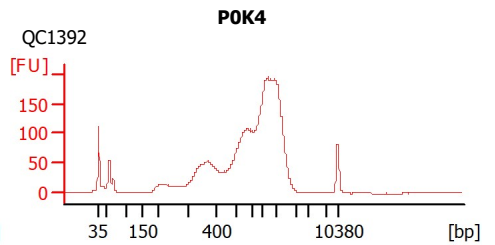
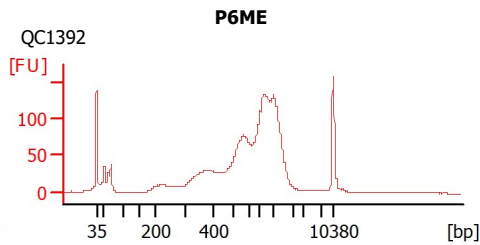
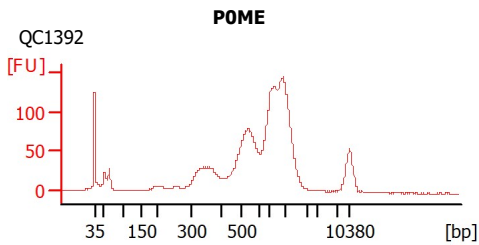
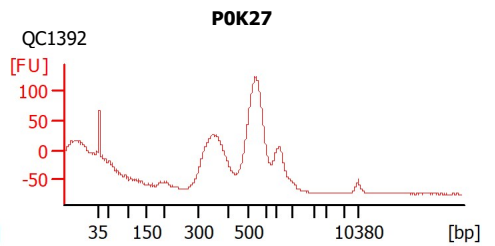
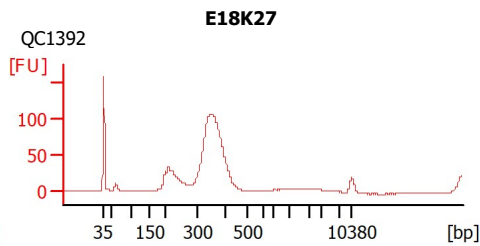
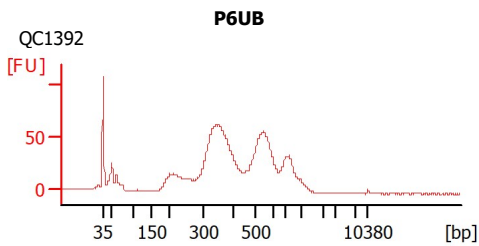
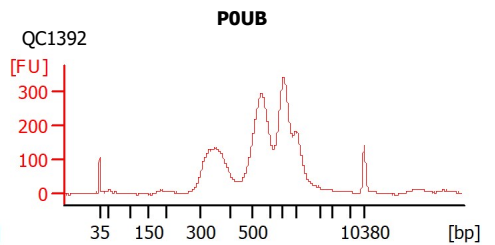
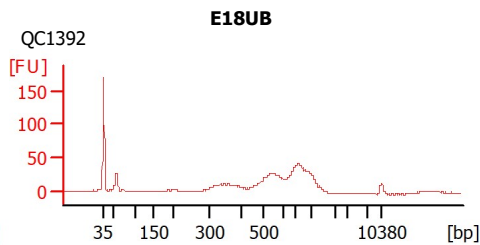
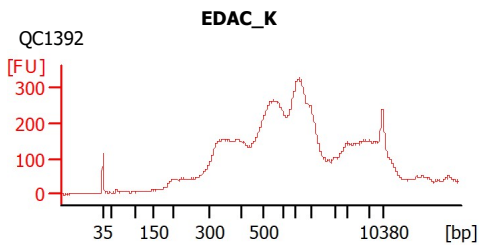
Instrument Name: DE34903152      Firmware: C.01.069  
Serial#: DE34903152      Type: G2938C

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
EDAC_K	QC1392	<input type="checkbox"/>	✓			
E18UB	QC1392	<input type="checkbox"/>	✓			
P0UB	QC1392	<input type="checkbox"/>	✓			
P6UB	QC1392	<input type="checkbox"/>	✓			
E18K27	QC1392	<input type="checkbox"/>	✓			
P0K27	QC1392	<input type="checkbox"/>	✓			
P0ME	QC1392	<input type="checkbox"/>	✓			
P6ME	QC1392	<input type="checkbox"/>	✓			
P0K4	QC1392	<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

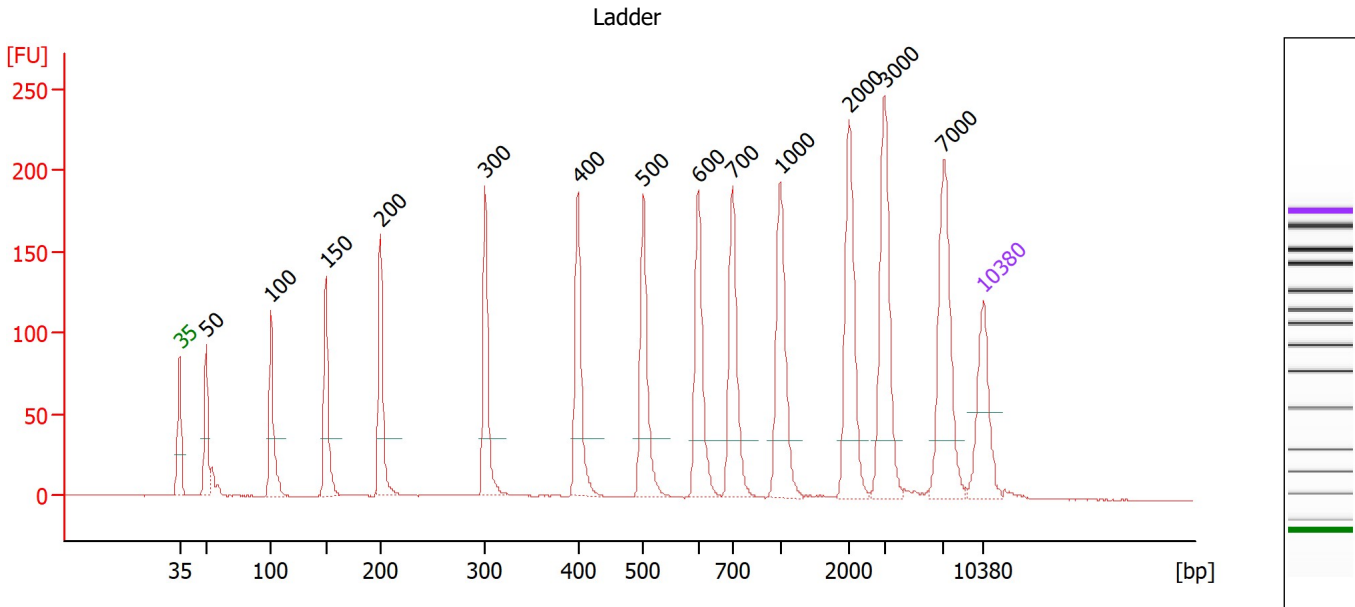
### Ladder

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

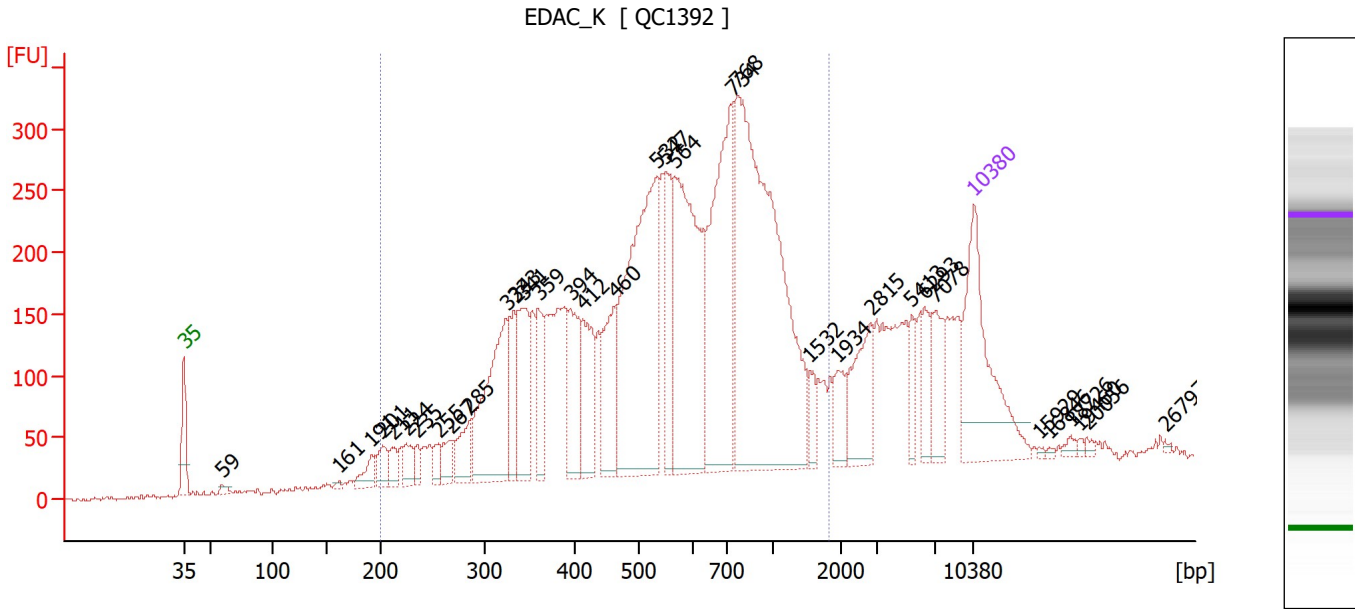
**Peak table for Ladder**

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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**Electropherogram Summary Continued ...**



**Overall Results for sample 1 : EDAC\_K**

Number of peaks found: 34                      Corr. Area 1: 7,011.3  
 Noise: 1.8

**Peak table for sample 1 : EDAC\_K**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	59	4.31	110.4	
3	161	2.22	20.8	
4	191	15.29	121.4	
5	201	17.81	134.1	
6	211	11.34	81.5	
7	224	14.53	98.2	
8	235	9.51	61.3	
9	255	10.56	62.7	
10	267	15.62	88.7	
11	285	24.42	129.6	
12	324	107.47	502.7	
13	333	37.00	168.5	
14	341	58.06	257.6	
15	359	35.04	147.9	
16	394	49.46	190.2	
17	412	48.13	176.9	
18	460	50.25	165.4	
19	532	203.24	579.3	
20	547	46.17	127.8	
21	564	161.93	434.9	
22	734	156.45	323.0	
23	768	315.79	622.9	
24	1,532	8.79	8.7	
25	1,934	15.93	12.5	
26	2,815	39.09	21.0	

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**Electropherogram Summary Continued ...**

**... Peak table for sample 1 : EDAC K**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
27	5,413	12.13	3.4	
28	6,293	16.54	4.0	
29	7,078	25.45	5.4	
30	10,380	75.00	10.9	Upper Marker
31	15,929	0.00	0.0	
32	16,846	0.00	0.0	
33	18,726	0.00	0.0	
34	19,460	0.00	0.0	
35	20,056	0.00	0.0	
36	26,797	0.00	0.0	

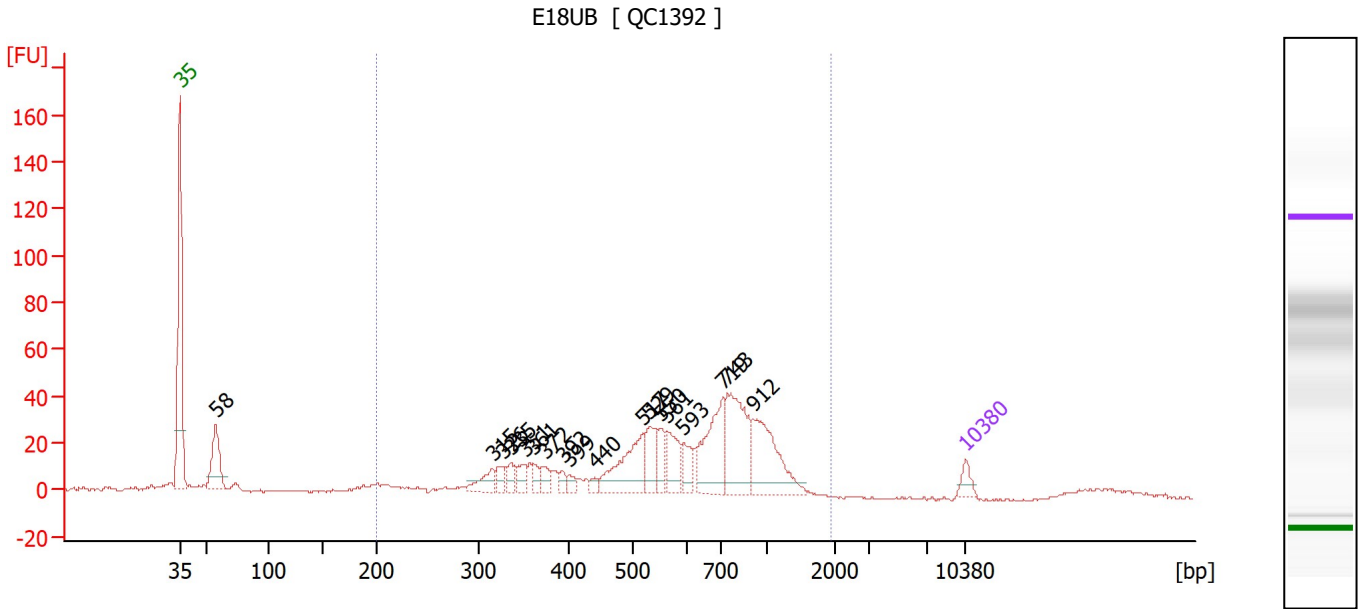
**Region table for sample 1 : EDAC K**

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	1,822	7,011.3	81	625	48.5	1,605.38	5,144.4	

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**Electropherogram Summary Continued ...**



**Overall Results for sample 2 : E18UB**

Number of peaks found: 18                      Corr. Area 1: 643.7  
 Noise: 0.6

**Peak table for sample 2 : E18UB**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	58	592.77	15,575.4	
3	315	191.68	921.3	
4	326	115.64	537.8	
5	335	122.82	555.1	
6	351	120.69	521.7	
7	361	82.87	348.3	
8	372	103.01	419.2	
9	392	65.89	254.9	
10	399	62.43	236.9	
11	440	54.37	187.3	
12	517	592.89	1,735.9	
13	529	263.66	754.6	
14	550	181.22	499.0	
15	561	306.18	826.6	
16	593	185.45	473.9	
17	719	640.16	1,349.8	
18	743	782.89	1,597.1	
19	912	663.27	1,102.3	
20	10,380	75.00	10.9	Upper Marker

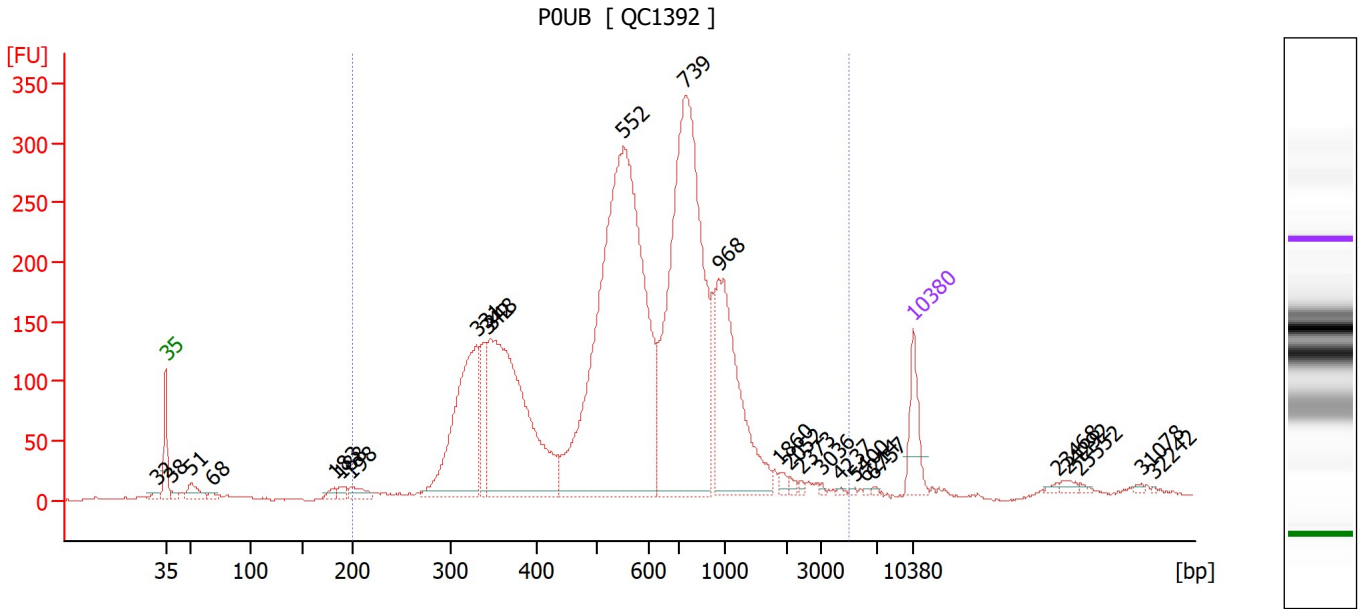
**Region table for sample 2 : E18UB**

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	1,942	643.7	87	650	38.4	5,059.56	14,683.2	Blue

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**Electropherogram Summary Continued ...**



**Overall Results for sample 3 : POUB**

Number of peaks found: 26                      Corr. Area 1: 5,228.2  
 Noise: 0.7

**Peak table for sample 3 : POUB**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	32	0.00	0.0	
2	35	125.00	5,411.3	Lower Marker
3	38	13.93	552.0	
4	51	52.25	1,562.3	
5	68	14.37	320.2	
6	183	17.18	142.6	
7	188	18.37	148.3	
8	198	33.03	252.6	
9	331	478.10	2,188.0	
10	342	116.20	514.5	
11	348	774.42	3,374.0	
12	552	1,539.73	4,223.4	
13	739	1,134.59	2,324.7	
14	968	406.00	635.5	
15	1,860	11.39	9.3	
16	2,052	8.24	6.1	
17	2,373	5.00	3.2	
18	3,036	3.18	1.6	
19	4,237	3.41	1.2	
20	5,400	2.83	0.8	
21	6,214	2.16	0.5	
22	6,757	3.26	0.7	
23	10,380	75.00	10.9	Upper Marker
24	23,468	0.00	0.0	
25	24,292	0.00	0.0	
26	25,552	0.00	0.0	



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**Electropherogram Summary Continued ...**

**... Peak table for sample 3 : P0UB**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
27	31,078	0.00	0.0	
28	32,242	0.00	0.0	

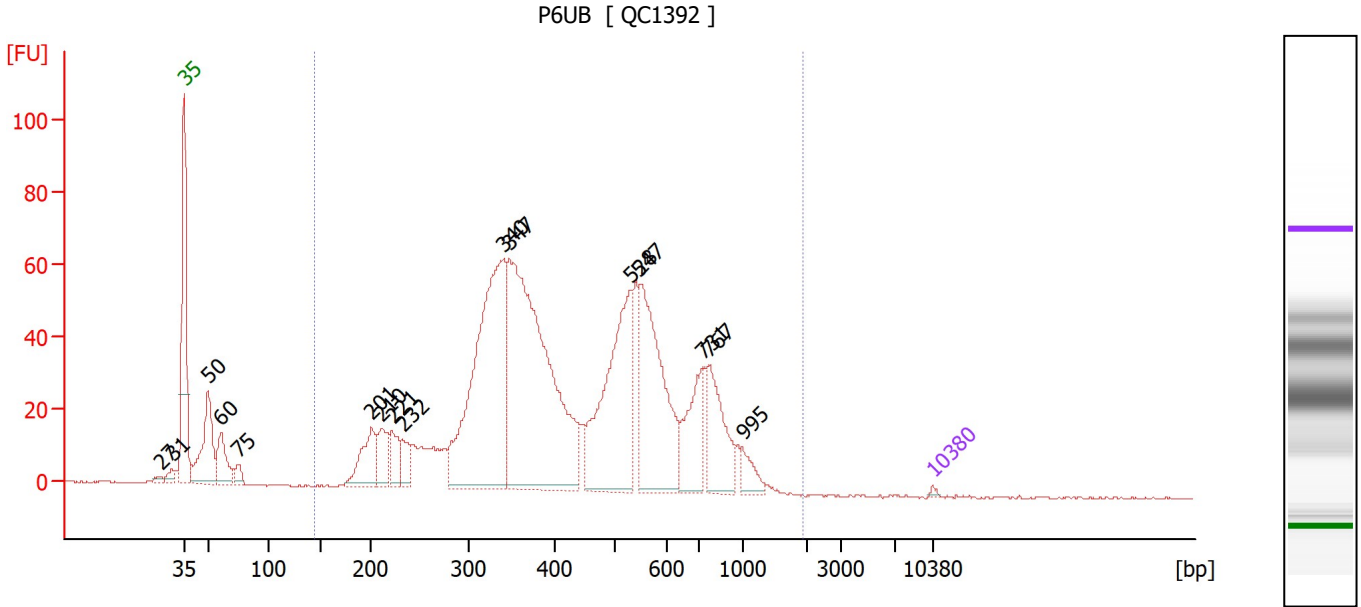
**Region table for sample 3 : P0UB**

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	5,018	5,228.2	95	665	57.2	4,645.07	13,722.9	

Assay Class: High Sensitivity DNA Assay  
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**Electropherogram Summary Continued ...**



**Setpoint Deviations for sample 4 : P6UB**

Height Threshold [FU] : 1

**Overall Results for sample 4 : P6UB**

Number of peaks found: 16      Corr. Area 1: 1,393.4  
 Noise: 0.3

**Peak table for sample 4 : P6UB**

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	50	5,127.51	155,933.4	
5	60	2,426.83	61,321.1	
6	75	637.18	12,939.6	
7	201	3,171.79	23,963.0	
8	210	1,954.58	14,074.7	
9	221	1,680.21	11,500.0	
10	232	1,228.10	8,028.0	
11	340	17,818.92	79,447.6	
12	347	22,967.34	100,218.0	
13	528	10,113.99	29,014.6	
14	547	9,115.01	25,251.3	
15	731	3,536.34	7,331.4	
16	767	3,668.84	7,247.1	
17	995	869.65	1,324.1	
18	10,380	75.00	10.9	Upper Marker

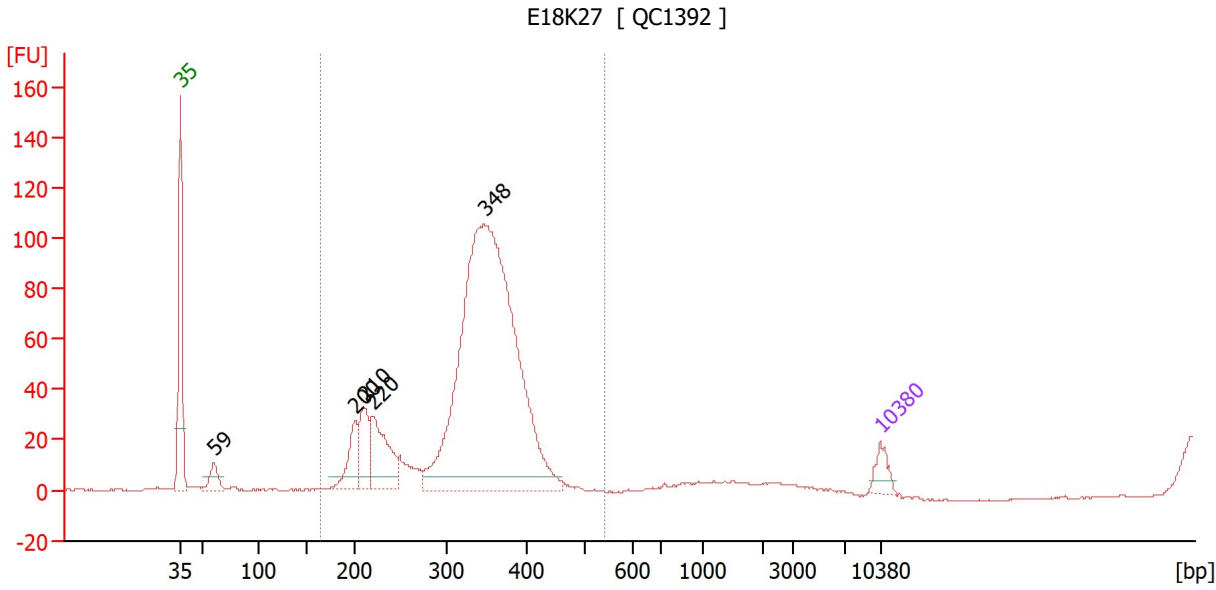
**Region table for sample 4 : P6UB**

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
144	1,949	1,393.4	92	463	40.1	82,862.84	332,219.8	Blue

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**Electropherogram Summary Continued ...**



**Overall Results for sample 5 : E18K27**

Number of peaks found: 5                      Corr. Area 1: 942.1  
 Noise: 0.2

**Peak table for sample 5 : E18K27**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	59	132.03	3,377.1	
3	200	258.85	1,962.4	
4	210	286.26	2,067.2	
5	220	464.95	3,205.4	
6	348	4,057.85	17,688.3	
7	10,380	75.00	10.9	Upper Marker

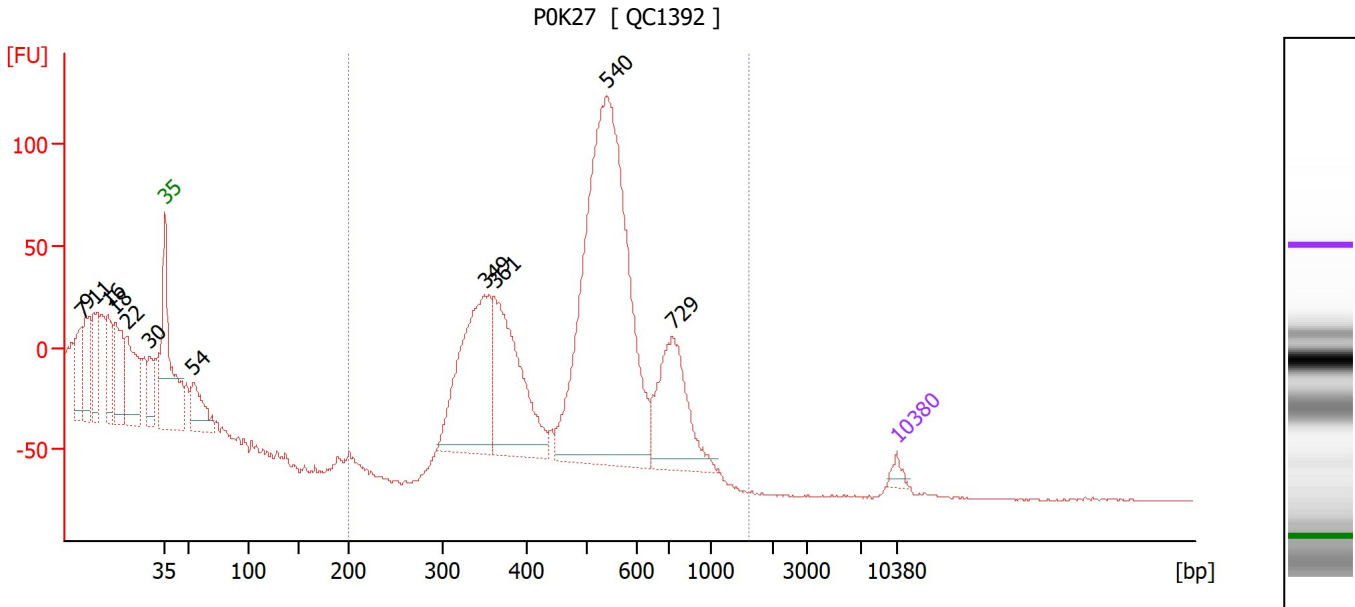
**Region table for sample 5 : E18K27**

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
164	542	942.1	99	333	16.4	4,322.93	20,755.6	Blue

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**Electropherogram Summary Continued ...**



**Overall Results for sample 6 : POK27**

Number of peaks found: 12      Corr. Area 1: 1,271.2  
 Noise: 0.4

**Peak table for sample 6 : POK27**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	7	0.00	0.0	
2	9	0.00	0.0	
3	11	0.00	0.0	
4	16	0.00	0.0	
5	18	0.00	0.0	
6	22	0.00	0.0	
7	30	0.00	0.0	
8	35	125.00	5,411.3	Lower Marker
9	54	714.25	20,097.7	
10	349	2,430.90	10,540.7	
11	361	2,147.36	9,018.0	
12	540	6,356.21	17,821.3	
13	729	1,436.95	2,986.5	
14	10,380	75.00	10.9	Upper Marker

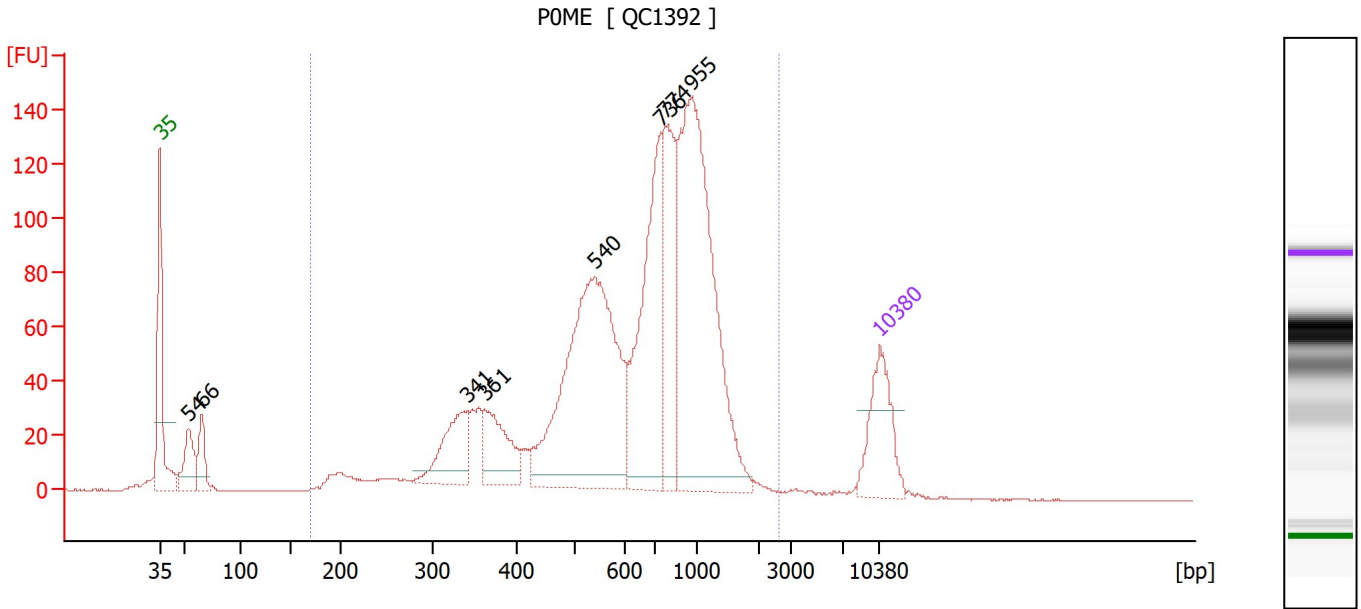
**Region table for sample 6 : POK27**

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	1,587	1,271.2	90	515	21.8	7,875.54	24,987.2	Blue

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**Electropherogram Summary Continued ...**



**Overall Results for sample 8 : POME**

Number of peaks found: 8                      Corr. Area 1: 2,129.8  
 Noise: 0.2

**Peak table for sample 8 : POME**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	54	76.24	2,128.8	
3	66	54.52	1,255.4	
4	341	98.48	437.4	
5	361	94.63	397.2	
6	540	458.93	1,287.0	
7	736	260.51	536.1	
8	774	176.10	344.7	
9	955	448.14	711.2	
10	10,380	75.00	10.9	Upper Marker

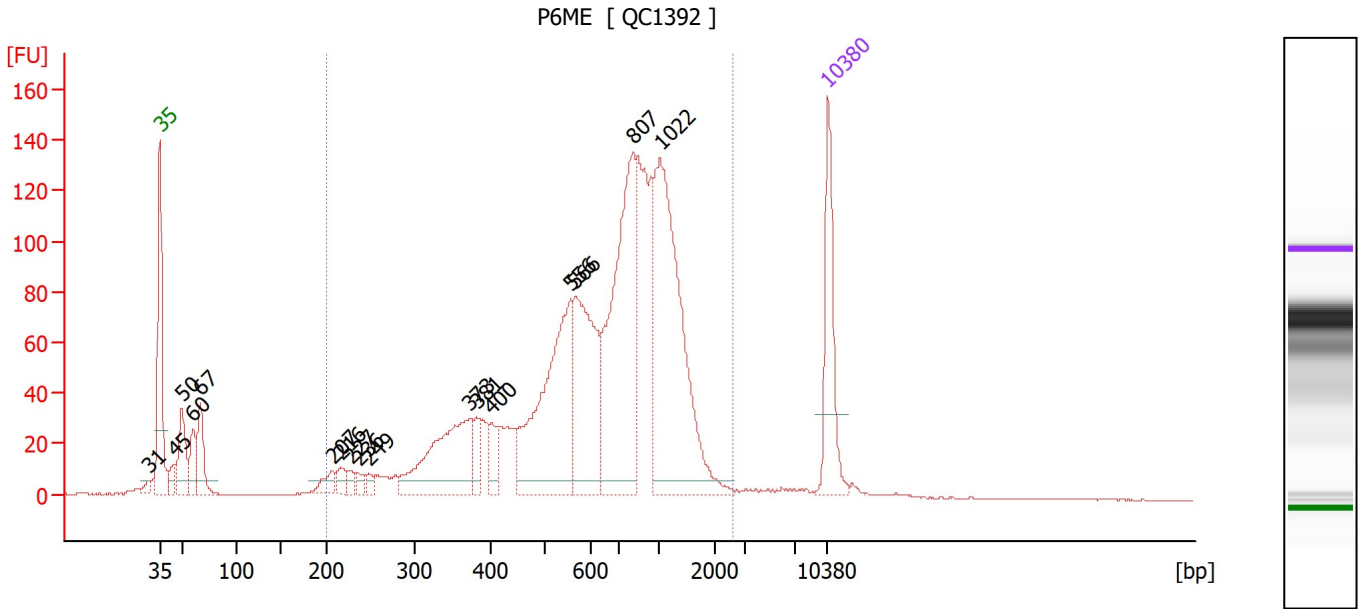
**Region table for sample 8 : POME**

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
170	2,600	2,129.8	94	737	44.0	1,780.53	4,877.4	Blue

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**Electropherogram Summary Continued ...**



**Overall Results for sample 9 : P6ME**

Number of peaks found: 17      Corr. Area 1: 2,109.0  
 Noise: 0.2

**Peak table for sample 9 : P6ME**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	31	0.00	0.0	
2	35	125.00	5,411.3	Lower Marker
3	45	19.17	649.2	
4	50	67.21	2,044.8	
5	60	40.30	1,014.8	
6	67	61.02	1,377.2	
7	207	20.69	151.7	
8	216	16.44	115.1	
9	227	10.64	71.1	
10	236	10.44	67.0	
11	249	8.55	52.0	
12	373	150.30	611.3	
13	381	21.65	86.1	
14	400	24.86	94.1	
15	556	225.27	613.6	
16	566	167.44	448.6	
17	807	265.36	498.3	
18	1,022	290.09	429.9	
19	10,380	75.00	10.9	Upper Marker

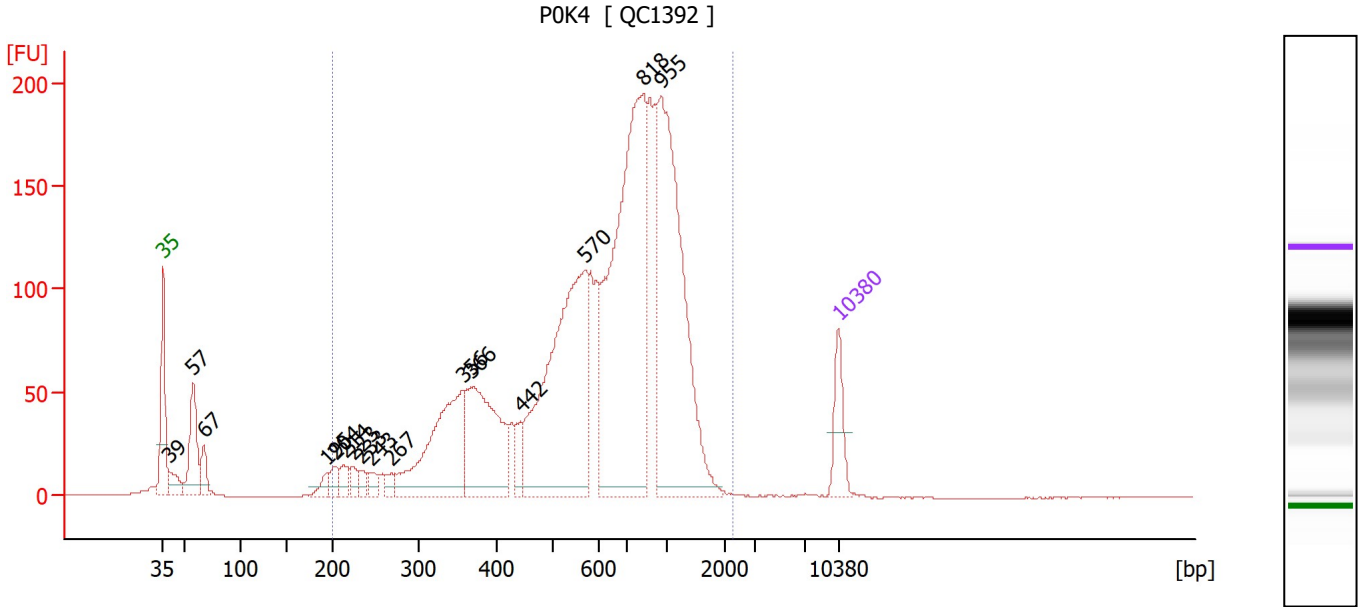
**Region table for sample 9 : P6ME**

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	2,549	2,109.0	89	758	46.8	1,525.49	4,148.9	Blue

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**Electropherogram Summary Continued ...**



**Overall Results for sample 10 : POK4**

Number of peaks found: 16      Corr. Area 1: 3,027.5  
 Noise: 0.2

**Peak table for sample 10 : POK4**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	39	64.05	2,492.9	
3	57	206.93	5,462.7	
4	67	64.63	1,456.3	
5	195	33.51	261.0	
6	204	38.18	283.6	
7	214	39.32	278.8	
8	223	34.72	236.1	
9	233	26.55	172.5	
10	243	28.32	176.3	
11	267	24.74	140.3	
12	356	405.49	1,725.3	
13	366	387.49	1,605.5	
14	442	50.99	175.0	
15	570	761.44	2,023.7	
16	818	998.03	1,848.4	
17	955	748.01	1,187.2	
18	10,380	75.00	10.9	Upper Marker

**Region table for sample 10 : POK4**

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	2,245	3,027.5	94	709	42.5	4,060.21	11,377.1	Blue

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Assay Class: High Sensitivity DNA Assay  
Data Path: C:\Users\sbsuser\Desktop\2023-01-18\QC1392.xad

Created: 1/18/2023 1:11:22 PM  
Modified: 1/18/2023 2:50:51 PM

**Gel Image**



Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\Users\sbsuser\Desktop\2023-01-18\QC1392.xad

Created: 1/18/2023 1:11:22 PM  
 Modified: 1/18/2023 2:50:51 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		1/18/2023 1:53:04 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Run started on port 1 (File: C:\Users\sbsuser\Desktop\2023-01-18\Bioanalyzer_High Sensitivity DNA Assay_2023-01-18_001.xad)		Instrument	Run		1/18/2023 1:11:41 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Product Number : G2938C		Instrument	Run		1/18/2023 1:11:41 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Name :		Instrument	Run		1/18/2023 1:11:41 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Vendor : Agilent Technologies		Instrument	Run		1/18/2023 1:11:41 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Serial# : DE34903152		Instrument	Run		1/18/2023 1:11:41 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Firmware : C.01.069		Instrument	Run		1/18/2023 1:11:41 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Cartridge : Electrode		Instrument	Run		1/18/2023 1:11:41 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB