

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-08-01\2014-08-01\_004.xad

Created: 8/1/2014 11:22:23 AM  
Modified: 8/1/2014 12:01:17 PM

**Electrophoresis File Run Summary**

Instrument Information:

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

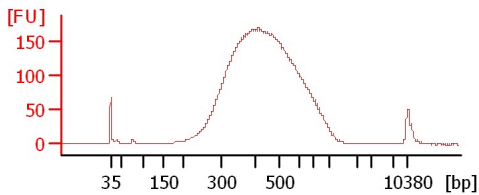
Assay Information:

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

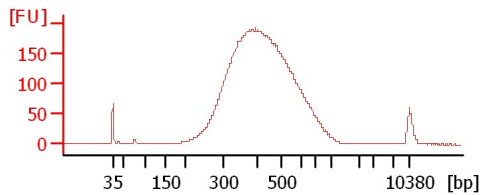
Chip Information:

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

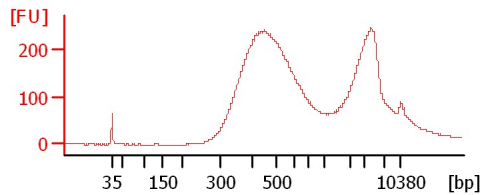
**lib chip pol2 Sc I8**



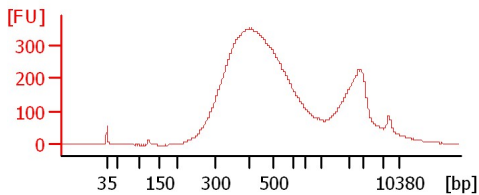
**lib chip pol2 top1 I9**



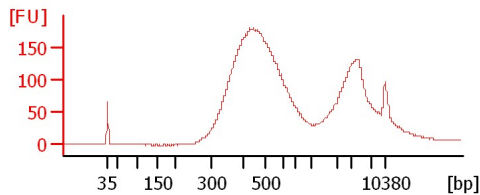
**lib ags1 p2 1 I22**



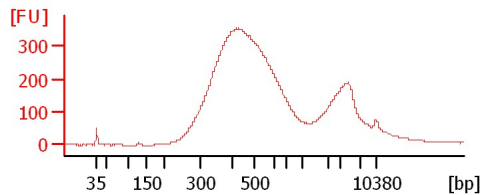
**lib ags1 p2 2 I22**



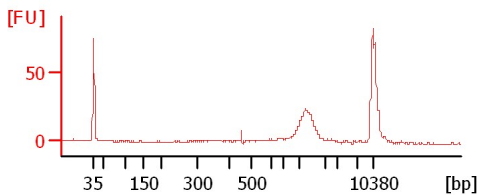
**lib ags5 p2 1 I23**



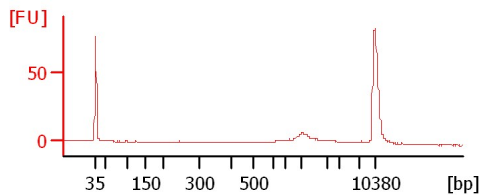
**lib ags5 p2 2 I23**



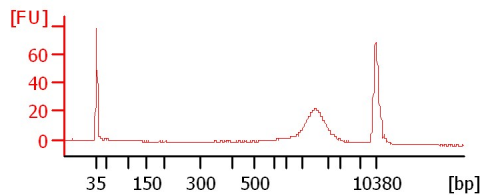
**CB 6+9**



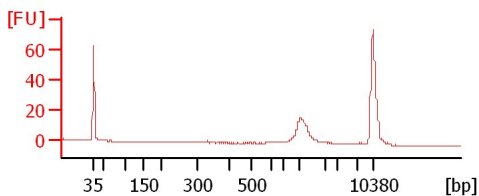
**CB 4+7**



**CB 3+8**



**CB 5+10**



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

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
lib chip pol2 Sc I8		<input type="checkbox"/>	✓			
lib chip pol2 top1 I9		<input type="checkbox"/>	✓			
lib ags1 p2 1 I22		<input type="checkbox"/>	✓			
lib ags1 p2 2 I22		<input type="checkbox"/>	✓			
lib ags5 p2 1 I23		<input type="checkbox"/>	✓			
lib ags5 p2 2 I23		<input type="checkbox"/>	✓			
CB 6+9		<input type="checkbox"/>	✓			
CB 4+7		<input type="checkbox"/>	✓			
CB 3+8		<input type="checkbox"/>	✓			
CB 5+10		<input type="checkbox"/>	✓			
sample 11		<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/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

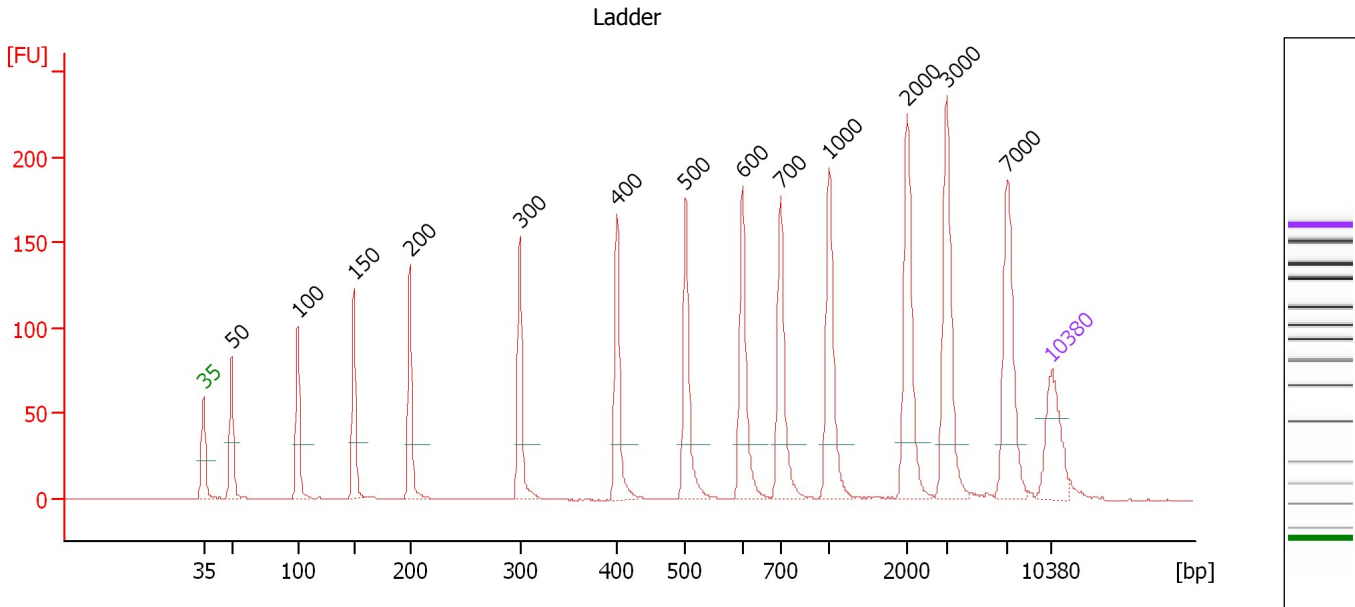
**Ladder**

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

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**Electropherogram Summary**



**Overall Results for Ladder**

Noise: 0.1

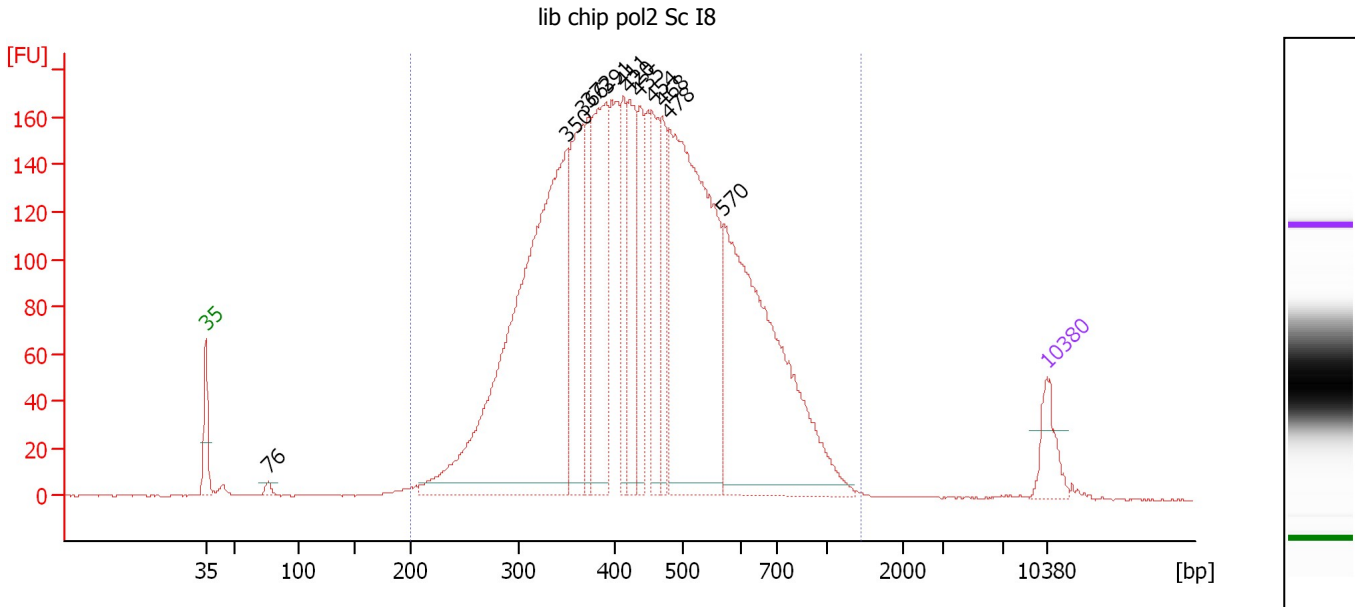
**Peak table for Ladder**

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 : lib chip pol2 Sc I8**

Number of peaks found: 12                      Corr. Area 1: 4,441.3  
 Noise: 0.2

**Peak table for sample 1 : lib chip pol2 Sc I8**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	76	18.41	366.2	
3	350	1,810.13	7,828.7	
4	366	456.04	1,885.9	
5	372	210.04	855.6	
6	391	525.94	2,039.3	
7	411	205.29	756.4	
8	420	295.46	1,066.4	
9	435	196.96	685.3	
10	454	249.77	833.2	
11	468	185.61	600.6	
12	478	1,265.27	4,007.1	
13	570	1,083.06	2,878.5	
14	10,380	75.00	10.9	Upper Marker

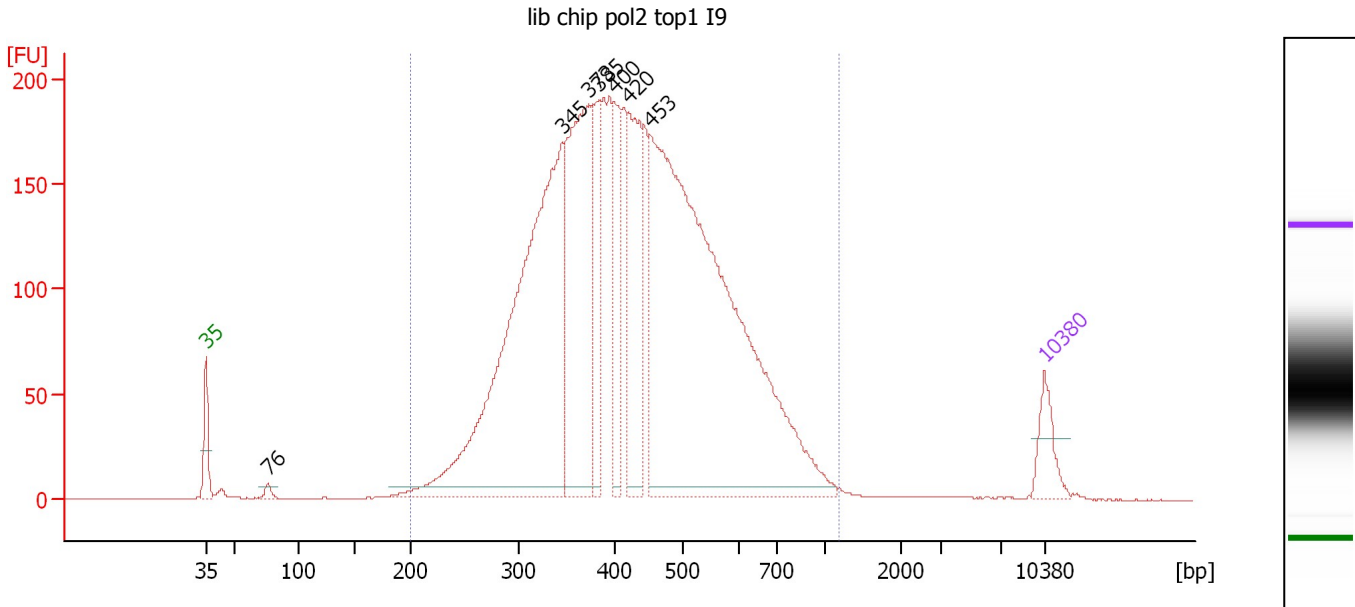
**Region table for sample 1 : lib chip pol2 Sc I8**

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
200	1,450	460	26,879.5	7,225.02	4,441.3	98	32.4

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**Electropherogram Summary Continued ...**



**Overall Results for sample 2 : lib chip pol2 top1 I9**

Number of peaks found: 7                      Corr. Area 1: 4,657.4  
 Noise: 0.2

**Peak table for sample 2 : lib chip pol2 top1 I9**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	76	19.92	397.3	
3	345	1,764.46	7,747.0	
4	373	850.00	3,453.8	
5	385	245.47	967.1	
6	400	251.80	954.8	
7	420	417.05	1,505.2	
8	453	2,391.75	8,003.8	
9	10,380	75.00	10.9	Upper Marker

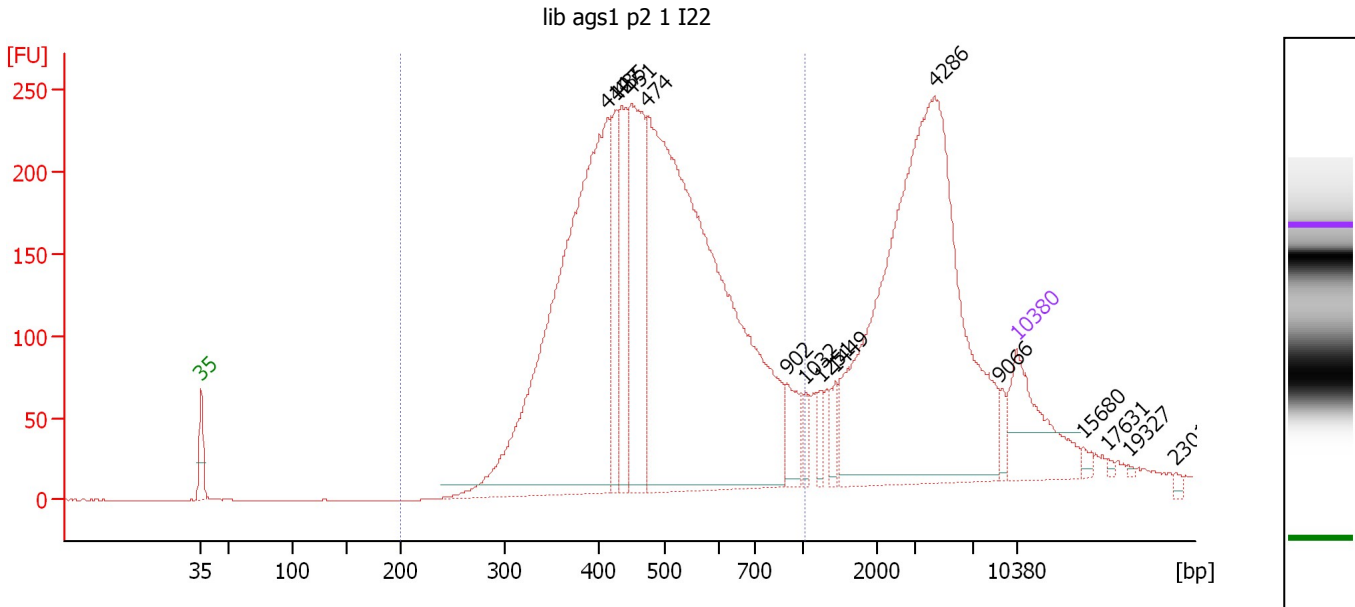
**Region table for sample 2 : lib chip pol2 top1 I9**

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
200	1,197	439	25,769.8	6,726.49	4,657.4	98	29.3

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



**Overall Results for sample 3 : lib ags1 p2 1 I22**

Number of peaks found: 15                      Corr. Area 1: 4,619.3  
 Noise: 0.2

**Peak table for sample 3 : lib ags1 p2 1 I22**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	414	704.50	2,576.6	
3	427	91.50	324.5	
4	435	110.59	385.0	
5	451	205.39	690.6	
6	474	927.25	2,963.9	
7	902	36.78	61.8	
8	1,032	13.35	19.6	
9	1,251	14.04	17.0	
10	1,449	15.21	15.9	
11	4,286	580.24	205.1	
12	9,066	11.05	1.8	
13	10,380	75.00	10.9	Upper Marker
14	15,680	0.00	0.0	
15	17,631	0.00	0.0	
16	19,327	0.00	0.0	
17	23,016	0.00	0.0	

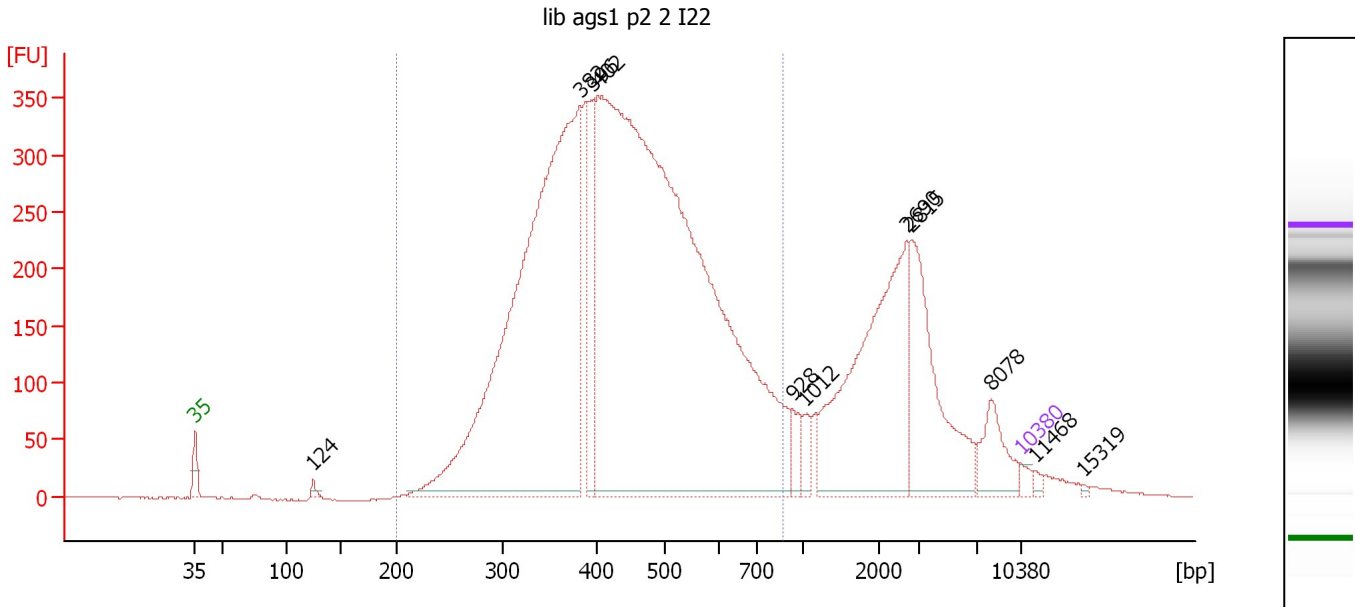
**Region table for sample 3 : lib ags1 p2 1 I22**

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. for Area	% of Total	Size distribution in CV [%]
200	1,035	496	6,715.4	2,019.68	4,619.3	69	27.6

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**Electropherogram Summary Continued ...**



**Overall Results for sample 4 : lib ags1 p2 2 I22**

Number of peaks found: 11                      Corr. Area 1: 8,128.9  
 Noise: 0.6

**Peak table for sample 4 : lib ags1 p2 2 I22**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	124	61.30	746.8	
3	382	10,753.88	42,665.1	
4	396	1,089.25	4,167.4	
5	402	17,930.54	67,522.4	
6	928	241.53	394.4	
7	1,012	171.25	256.4	
8	2,690	2,896.56	1,631.5	
9	2,815	1,640.23	882.9	
10	8,078	482.58	90.5	
11	10,380	75.00	10.9	Upper Marker
12	11,468	0.00	0.0	
13	15,319	0.00	0.0	

**Region table for sample 4 : lib ags1 p2 2 I22**

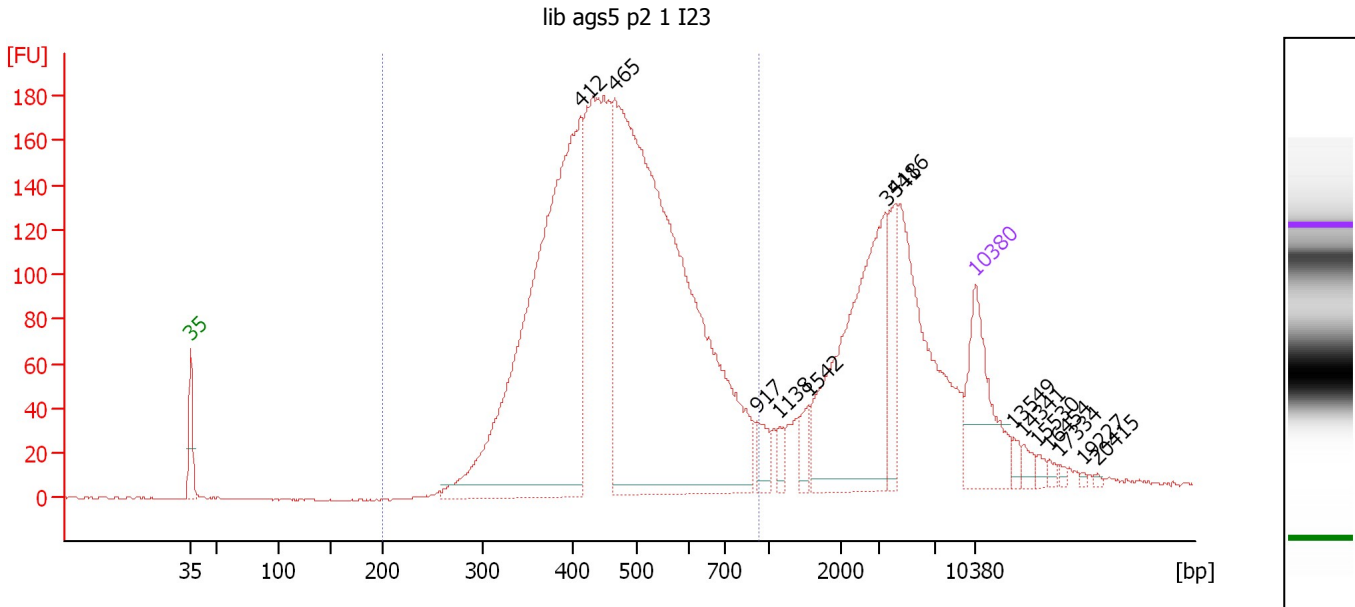
From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
200	869	447	111,567.6	30,049.58	8,128.9	78	26.3



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



**Overall Results for sample 5 : lib ags5 p2 1 I23**

Number of peaks found: 14                      Corr. Area 1: 3,306.4  
 Noise: 0.5

**Peak table for sample 5 : lib ags5 p2 1 I23**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	412	669.44	2,463.7	
3	465	923.12	3,005.8	
4	917	19.45	32.1	
5	1,138	10.07	13.4	
6	1,542	17.28	17.0	
7	3,541	215.93	92.4	
8	4,186	50.79	18.4	
9	10,380	75.00	10.9	Upper Marker
10	13,549	0.00	0.0	
11	14,341	0.00	0.0	
12	15,530	0.00	0.0	
13	16,454	0.00	0.0	
14	17,334	0.00	0.0	
15	19,227	0.00	0.0	
16	20,415	0.00	0.0	

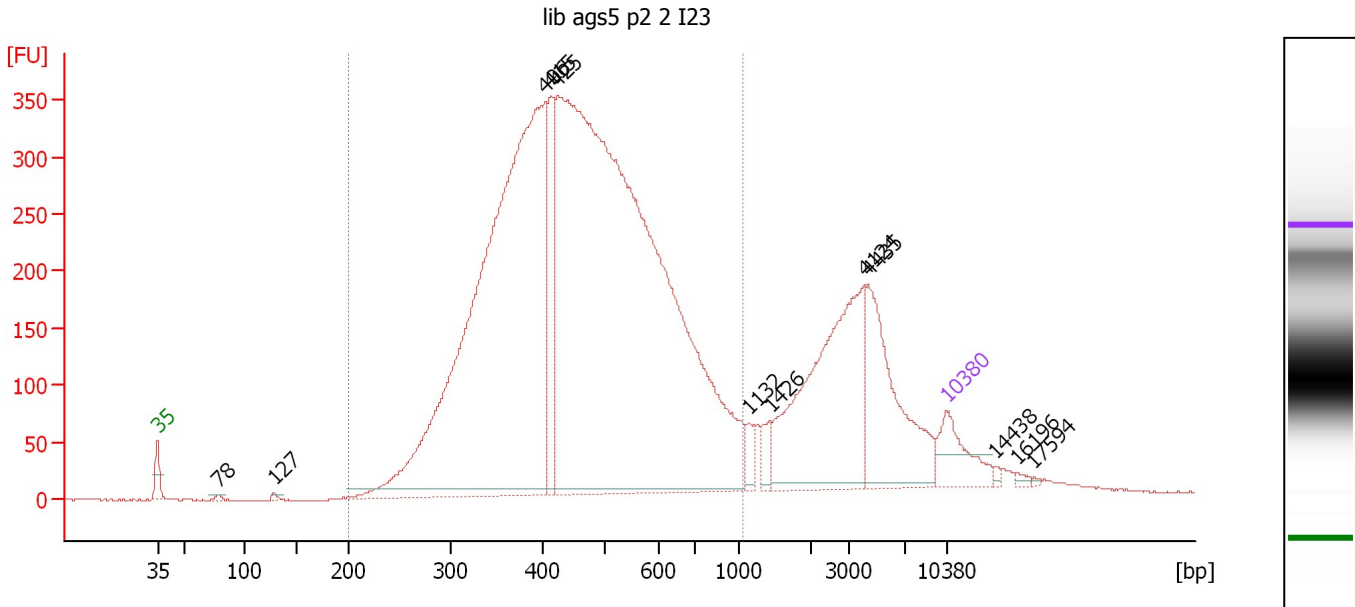
**Region table for sample 5 : lib ags5 p2 1 I23**

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
200	931	479	6,271.5	1,849.94	3,306.4	73	23.9

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**Electropherogram Summary Continued ...**



**Overall Results for sample 6 : lib ags5 p2 2 I23**

Number of peaks found: 12                      Corr. Area 1: 7,987.3  
 Noise: 0.5

**Peak table for sample 6 : lib ags5 p2 2 I23**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	78	6.81	131.9	
3	127	6.07	72.1	
4	406	1,914.14	7,143.0	
5	415	188.49	687.4	
6	425	2,856.18	10,184.8	
7	1,132	24.33	32.6	
8	1,426	28.85	30.7	
9	4,124	426.76	156.8	
10	4,435	248.23	84.8	
11	10,380	75.00	10.9	Upper Marker
12	14,438	0.00	0.0	
13	16,196	0.00	0.0	
14	17,594	0.00	0.0	

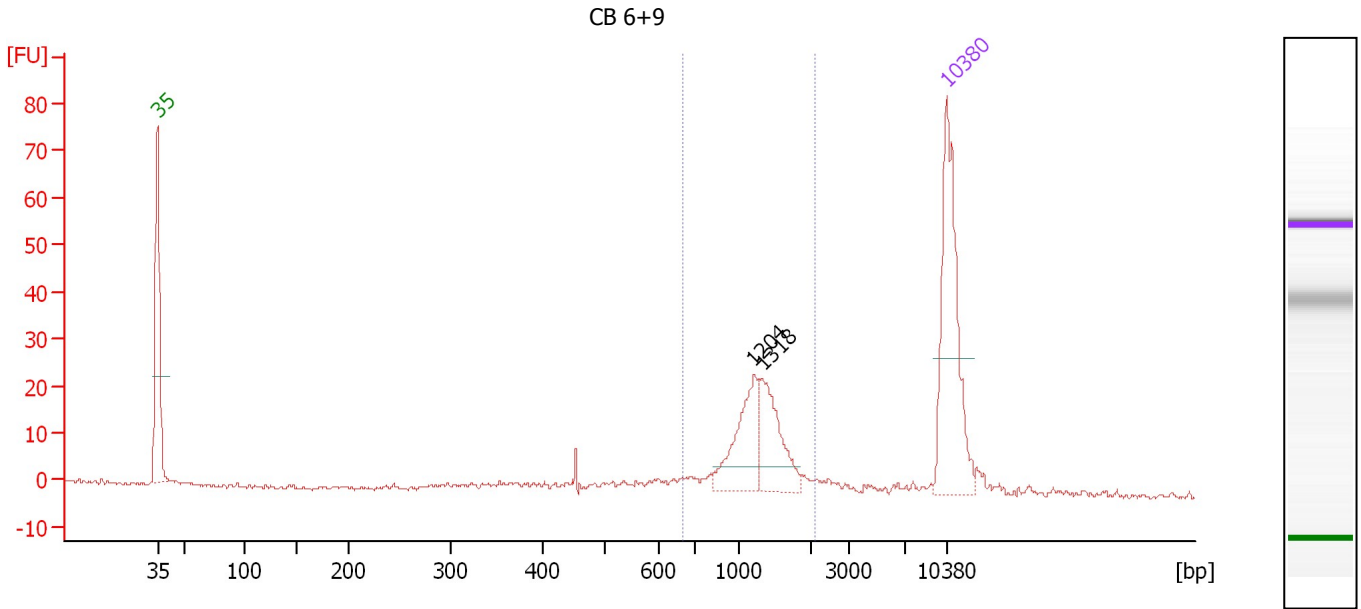
**Region table for sample 6 : lib ags5 p2 2 I23**

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
200	1,054	474	17,591.5	4,945.09	7,987.3	81	29.5

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**Electropherogram Summary Continued ...**



**Overall Results for sample 7 : CB 6+9**

Number of peaks found: 2                      Corr. Area 1: 122.1  
 Noise: 0.4

**Peak table for sample 7 : CB 6+9**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	1,204	40.32	50.7	
3	1,318	38.72	44.5	
4	10,380	75.00	10.9	Upper Marker

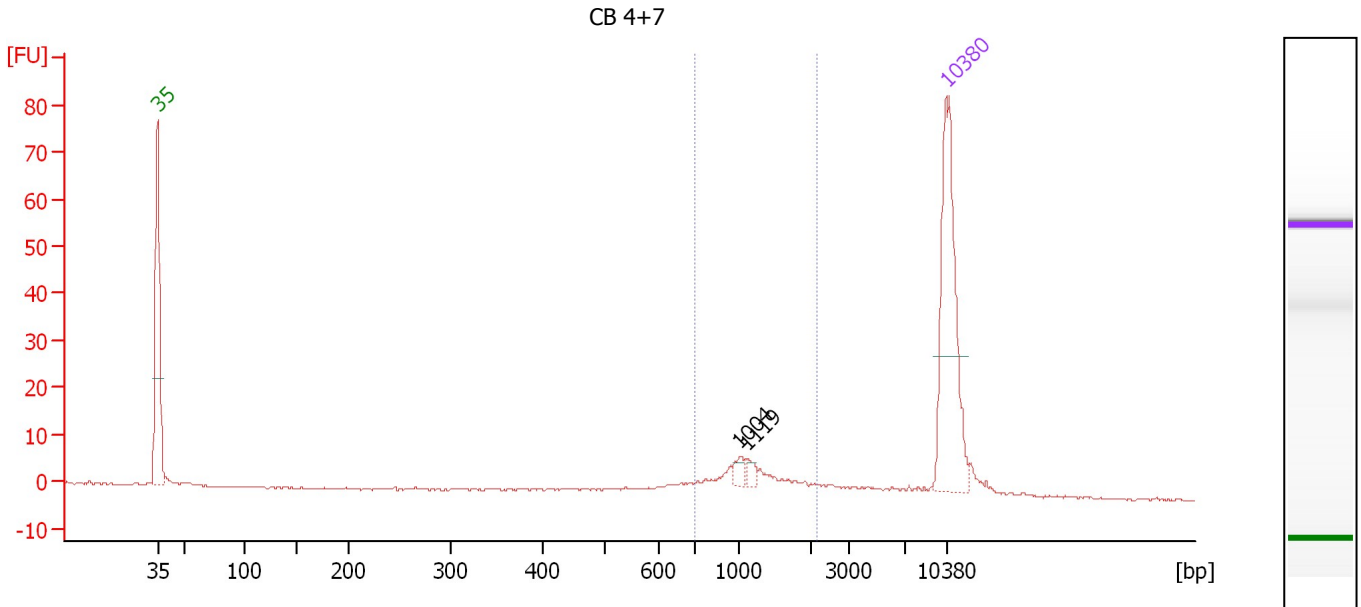
**Region table for sample 7 : CB 6+9**

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
668	2,080	1,259	113.1	89.47	122.1	69	23.0

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**Electropherogram Summary Continued ...**



**Overall Results for sample 8 : CB 4+7**

Number of peaks found: 2                      Corr. Area 1: 43.7  
 Noise: 0.2

**Peak table for sample 8 : CB 4+7**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	1,004	5.15	7.8	
3	1,119	4.03	5.5	
4	10,380	75.00	10.9	Upper Marker

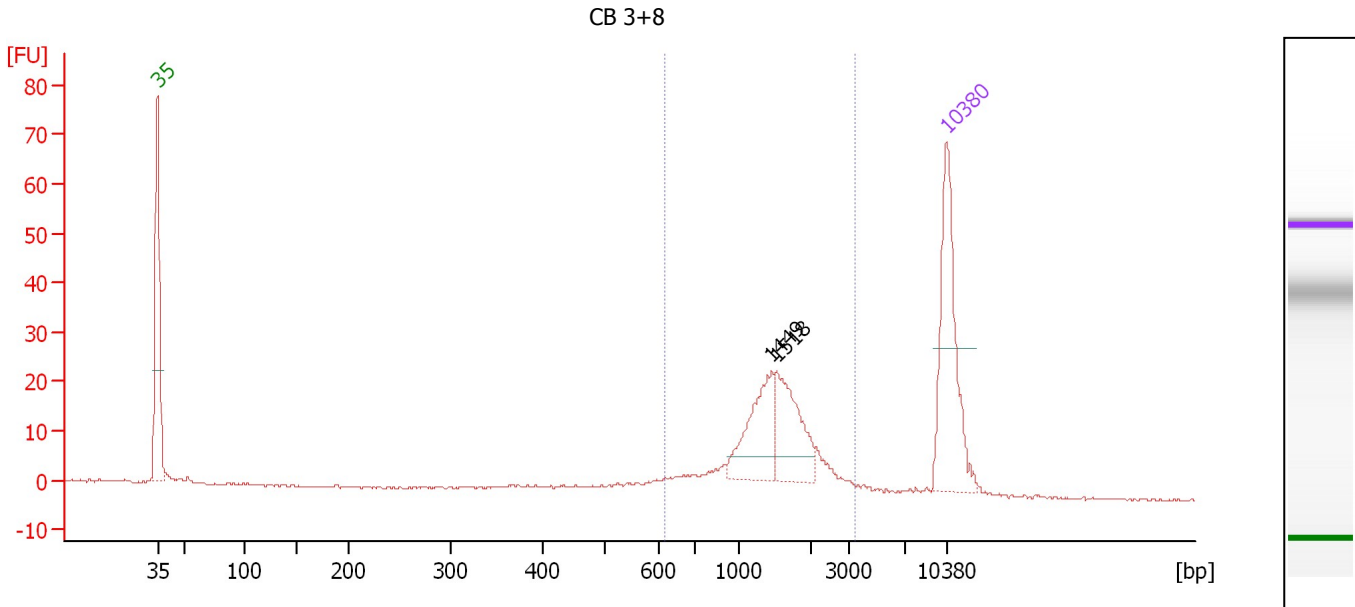
**Region table for sample 8 : CB 4+7**

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
710	2,122	1,220	45.5	34.30	43.7	52	28.5

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**Electropherogram Summary Continued ...**



**Overall Results for sample 9 : CB 3+8**

Number of peaks found: 2                      Corr. Area 1: 169.4  
 Noise: 0.1

**Peak table for sample 9 : CB 3+8**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	1,449	49.34	51.6	
3	1,518	49.53	49.4	
4	10,380	75.00	10.9	Upper Marker

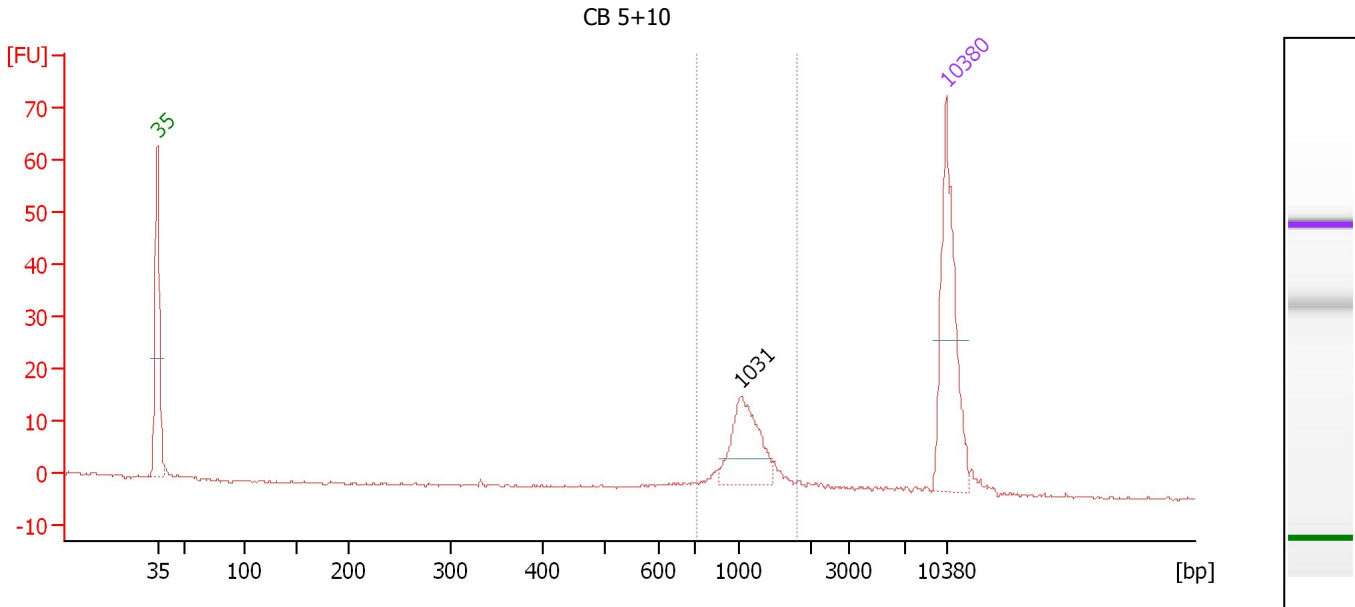
**Region table for sample 9 : CB 3+8**

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
619	3,434	1,494	171.5	150.01	169.4	84	32.7

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**Electropherogram Summary Continued ...**



**Overall Results for sample 10 : CB 5+10**

Number of peaks found: 1                      Corr. Area 1: 65.3  
 Noise: 0.2

**Peak table for sample 10 : CB 5+10**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	1,031	48.43	71.2	
3	10,380	75.00	10.9	Upper Marker

**Region table for sample 10 : CB 5+10**

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
715	1,792	1,141	85.2	62.49	65.3	71	19.0

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**Gel Image**

Assay Class: High Sensitivity DNA Assay  
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**Invalid Samples**

Sample 11 has not been run, no results available.



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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: 11)		Instrument	Run		8/1/2014 12:00:48 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\2014-08-01\2014-08-01_004.xad)		Instrument	Run		8/1/2014 11:22:29 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		8/1/2014 11:22:29 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		8/1/2014 11:22:29 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		8/1/2014 11:22:29 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		8/1/2014 11:22:29 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		8/1/2014 11:22:29 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		8/1/2014 11:22:29 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1