

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ings\Bioanalyzer\2015-10-16\2015-10-16\_003\_BMAG\_37A\_37B.xad

Created: 10/16/2015 4:21:59 PM  
Modified: 10/16/2015 5:11:23 PM

**Electrophoresis File Run Summary**

Instrument Information:

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

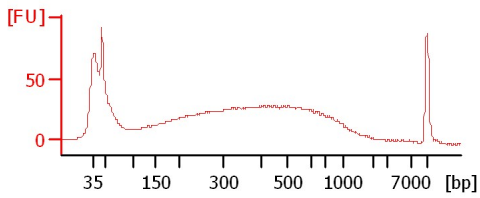
Assay Information:

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

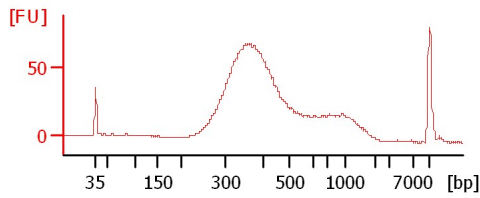
Chip Information:

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

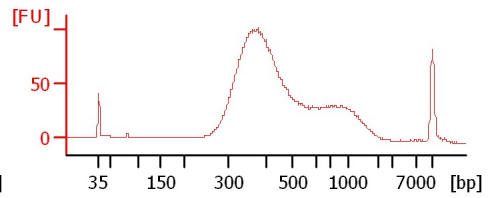
**pb mut soni - 50 sec**



**BMAG 37A**



**BMAG 037B**



Assay Class: High Sensitivity DNA Assay  
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 Modified: 10/16/2015 5:11:23 PM

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

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
pb mut soni - 50 sec		<input type="checkbox"/>				
BMAG 37A		<input type="checkbox"/>				
BMAG 037B		<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

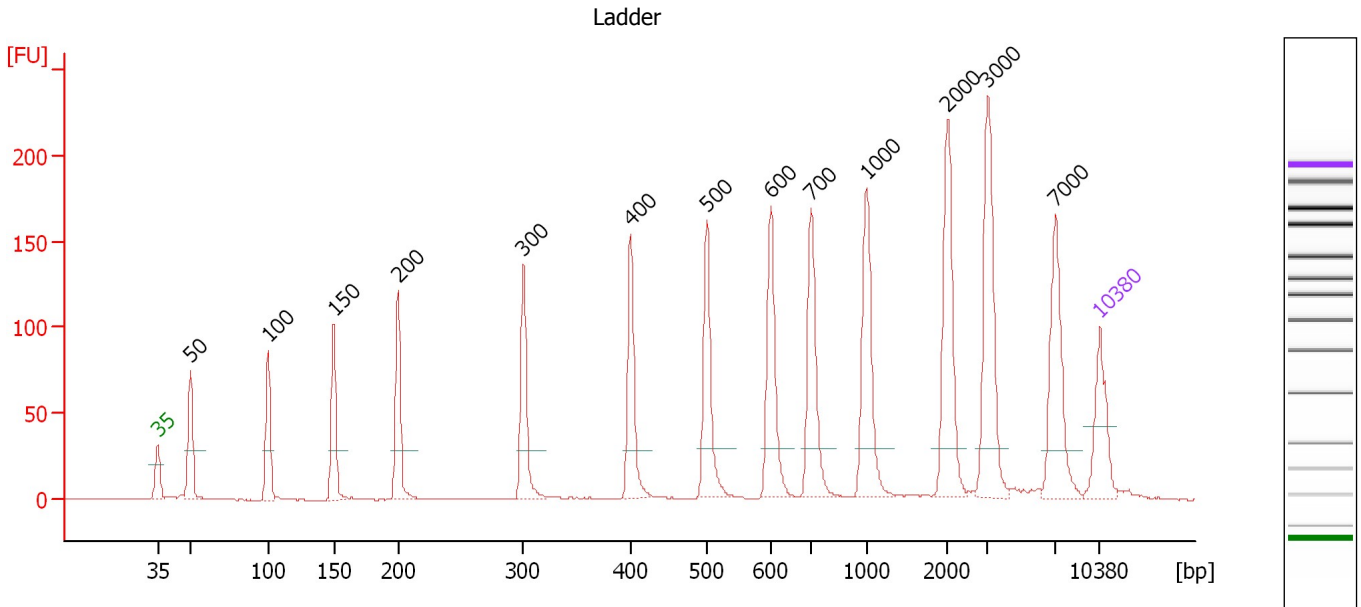
**Ladder**

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: 0.2

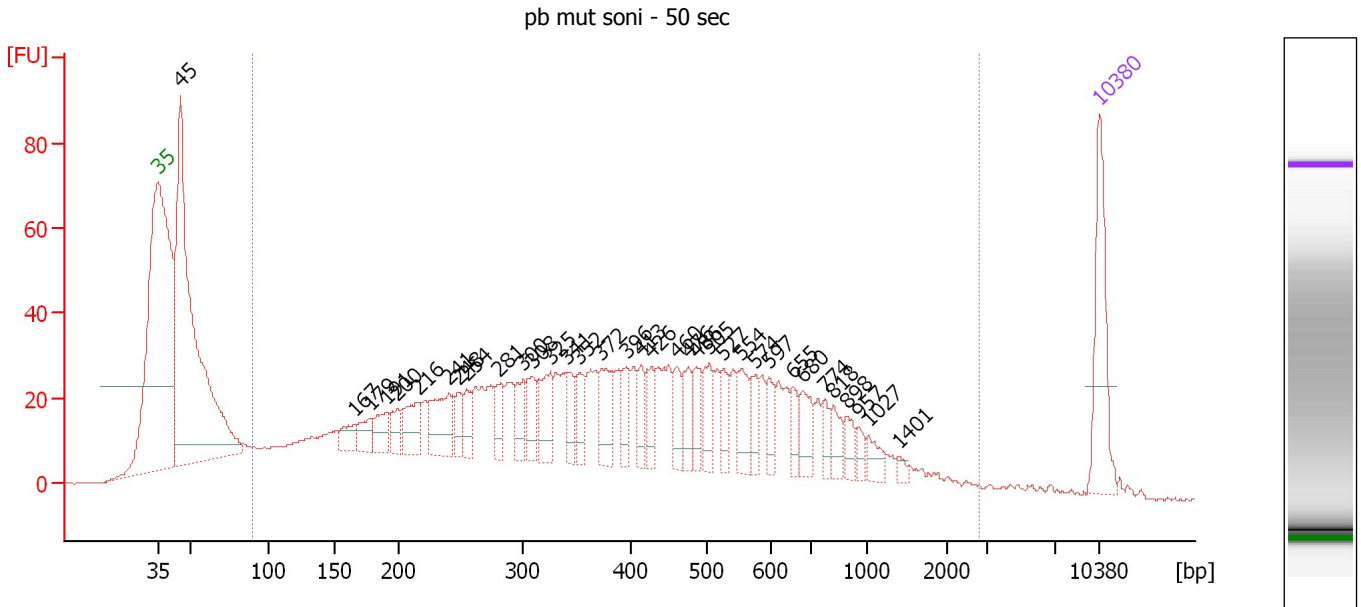
**Peak table for Ladder**

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	45.43
3	100	150.00	2,272.7	Ladder Peak	51.23
4	150	150.00	1,515.2	Ladder Peak	56.09
5	200	150.00	1,136.4	Ladder Peak	60.85
6	300	150.00	757.6	Ladder Peak	70.17
7	400	150.00	568.2	Ladder Peak	78.17
8	500	150.00	454.5	Ladder Peak	83.78
9	600	150.00	378.8	Ladder Peak	88.54
10	700	150.00	324.7	Ladder Peak	91.54
11	1,000	150.00	227.3	Ladder Peak	95.63
12	2,000	150.00	113.6	Ladder Peak	101.67
13	3,000	150.00	75.8	Ladder Peak	104.67
14	7,000	150.00	32.5	Ladder Peak	109.72
15	10,380	75.00	10.9	Upper Marker	113.00

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 Modified: 10/16/2015 5:11:23 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 1 : pb mut soni - 50 sec**

Number of peaks found: 35                      Corr. Area 1: 1,498.1  
 Noise: 0.2

**Peak table for sample 1 : pb mut soni - 50 sec**

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	45	670.31	22,327.2		44.70
3	167	25.23	229.6		57.66
4	179	28.66	242.7		58.84
5	191	34.07	269.8		60.02
6	200	23.45	177.9		60.82
7	216	49.08	344.5		62.33
8	241	68.68	431.5		64.68
9	248	25.21	154.2		65.30
10	254	27.92	166.4		65.91
11	281	29.56	159.3		68.41
12	300	35.76	180.7		70.15
13	308	30.63	150.7		70.81
14	325	54.18	253.0		72.13
15	341	28.41	126.2		73.45
16	352	27.75	119.4		74.35
17	372	45.16	183.8		75.95
18	396	27.48	105.2		77.84
19	413	27.20	99.9		78.87
20	426	26.92	95.7		79.63
21	460	30.32	100.0		81.51
22	476	28.16	89.7		82.41
23	486	28.43	88.6		83.02
24	505	36.52	109.6		84.01
25	527	24.78	71.3		85.05

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Created: 10/16/2015 4:21:59 PM  
 Modified: 10/16/2015 5:11:23 PM

**Electropherogram Summary Continued ...**

**... Peak table for sample 1 : pb mut soni - 50 sec**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	554	36.43	99.6		86.37
27	574	22.29	58.8		87.31
28	597	22.40	56.9		88.39
29	655	20.46	47.3		90.19
30	680	31.89	71.1		90.94
31	774	15.88	31.1		92.54
32	818	20.04	37.1		93.15
33	898	16.25	27.4		94.24
34	957	10.89	17.2		95.04
35	1,027	15.66	23.1		95.79
36	1,401	5.65	6.1		98.06
37	10,380	75.00	10.9	Upper Marker	113.00

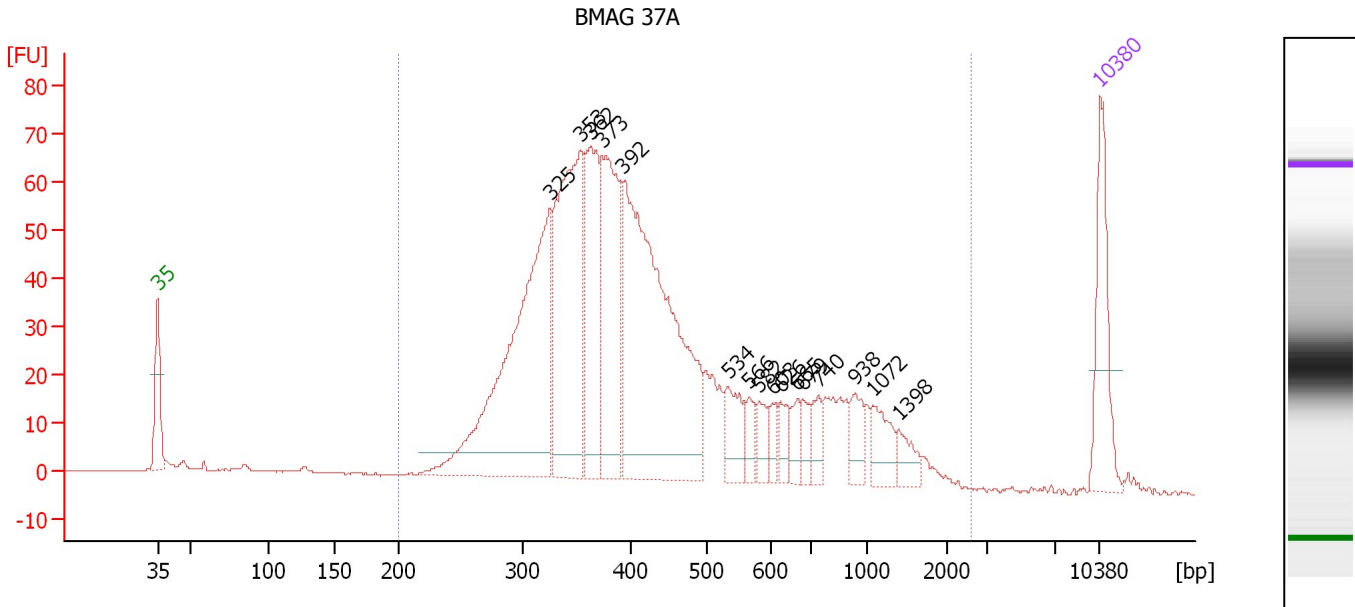
**Region table for sample 1 : pb mut soni - 50 sec**

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
90	2,791	459	1,498.1	12,997.2	2,345.09	78	69.9

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Created: 10/16/2015 4:21:59 PM  
 Modified: 10/16/2015 5:11:23 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 3 : BMAG 37A**

Number of peaks found: 16                      Corr. Area 1: 1,380.9  
 Noise: 0.2

**Peak table for sample 3 : BMAG 37A**

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	325	434.93	2,026.0		72.19
3	353	319.53	1,371.6		74.41
4	362	155.04	648.5		75.14
5	373	190.43	772.9		76.03
6	392	484.53	1,871.0		77.56
7	534	46.18	131.1		85.38
8	566	22.01	58.9		86.91
9	582	21.76	56.6		87.70
10	603	16.29	40.9		88.63
11	626	21.29	51.5		89.32
12	665	20.62	47.0		90.50
13	679	17.15	38.3		90.90
14	740	23.75	48.6		92.08
15	938	26.67	43.1		94.79
16	1,072	37.27	52.7		96.07
17	1,398	20.31	22.0		98.04
18	10,380	75.00	10.9	Upper Marker	113.00

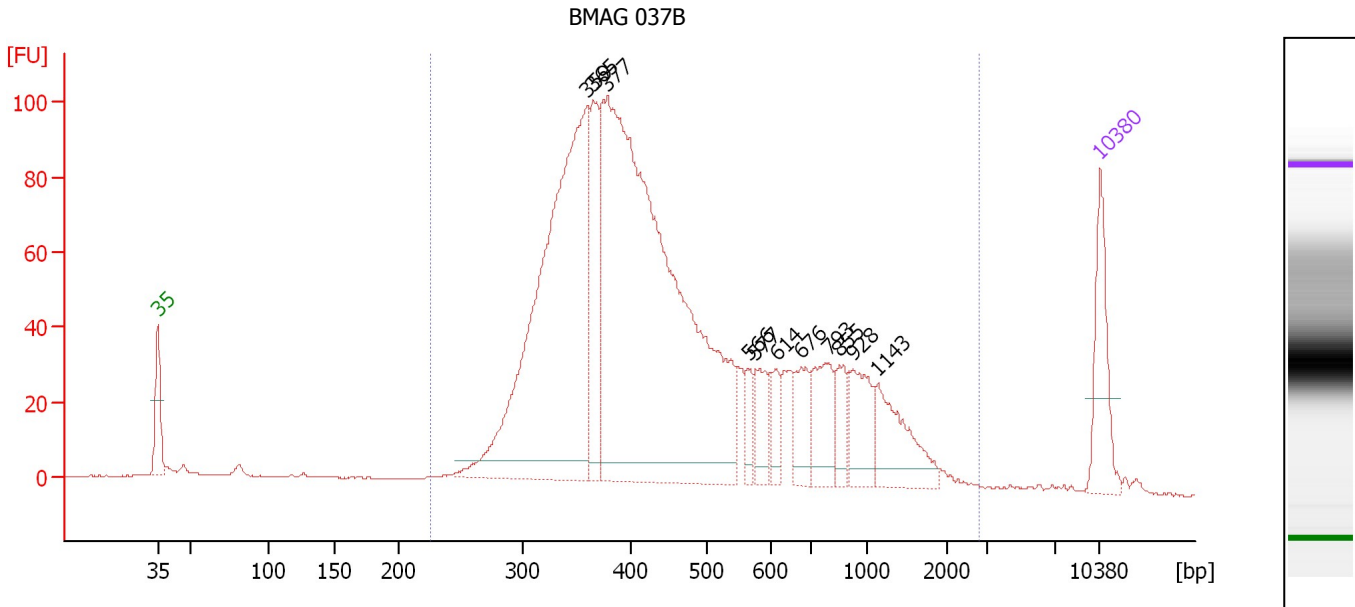
**Region table for sample 3 : BMAG 37A**

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
200	2,584	490	1,380.9	8,221.5	2,136.39	96	57.0

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Created: 10/16/2015 4:21:59 PM  
 Modified: 10/16/2015 5:11:23 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 4 : BMAG 037B**

Number of peaks found: 11                      Corr. Area 1: 1,979.5  
 Noise: 0.2

**Peak table for sample 4 : BMAG 037B**

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	359	789.23	3,328.6		74.91
3	365	153.04	635.5		75.36
4	377	1,188.68	4,773.0		76.35
5	566	29.33	78.5		86.92
6	577	48.68	127.9		87.42
7	614	34.13	84.2		88.97
8	676	52.77	118.3		90.81
9	793	77.33	147.7		92.81
10	855	37.00	65.6		93.66
11	928	72.17	117.8		94.65
12	1,143	90.85	120.4		96.50
13	10,380	75.00	10.9	Upper Marker	113.00

**Region table for sample 4 : BMAG 037B**

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
226	2,778	525	1,979.5	9,913.1	2,742.21	95	58.0



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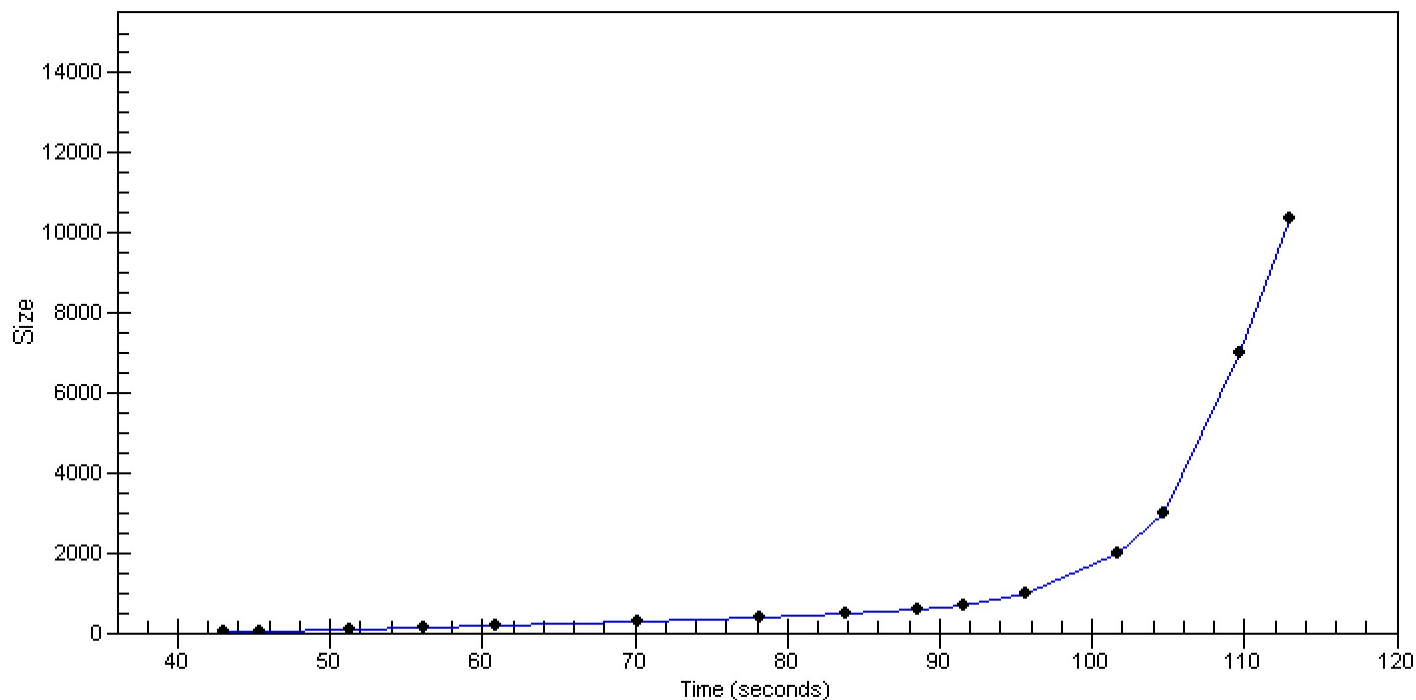
**Gel Image**

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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: 7)		Instrument	Run		10/16/2015 4:49:01 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2015-10-16\2015-10-16_003.xad)		Instrument	Run		10/16/2015 4:22:04 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		10/16/2015 4:22:04 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		10/16/2015 4:22:04 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		10/16/2015 4:22:04 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		10/16/2015 4:22:04 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		10/16/2015 4:22:04 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		10/16/2015 4:22:04 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1