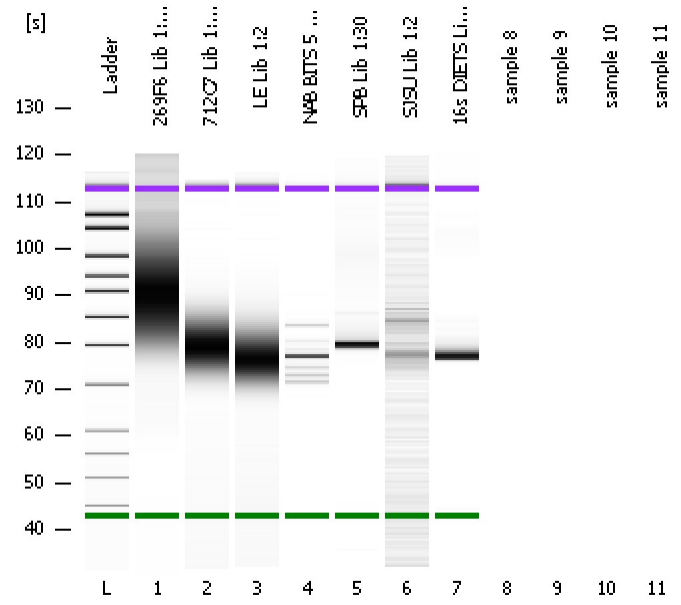
Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2013-05-22\2013-05-22_005.xad

Created: 5/22/2013 6:02:15 PM
Modified: 5/22/2013 6:36:09 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

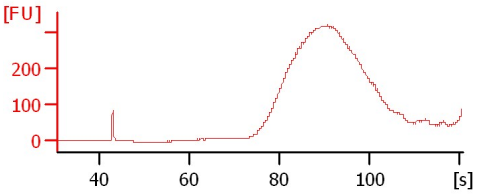
Chip Information:

Chip Lot #:

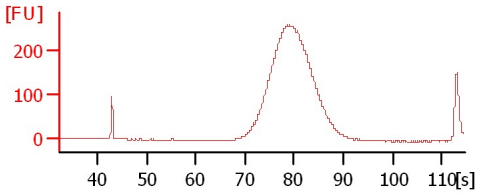
Reagent Kit Lot #:

Chip Comments:

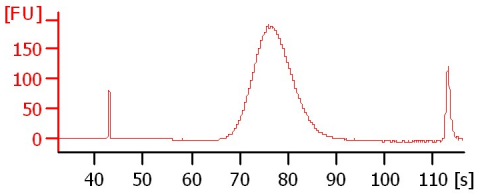
269F6 Lib 1:18



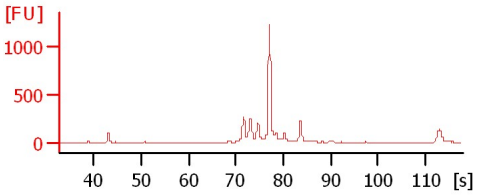
712C7 Lib 1:12



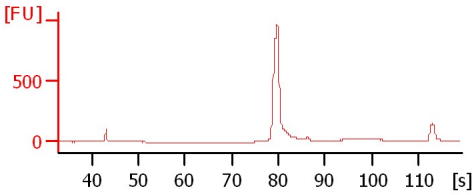
LE Lib 1:2



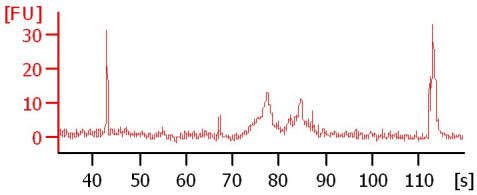
NAB BITS 5 Lib 1:9



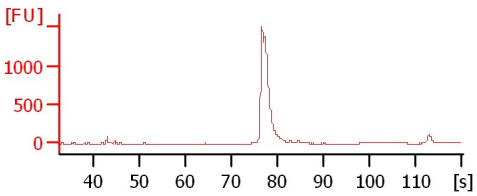
SPB Lib 1:30



SJSU Lib 1:2



16s DIETS Lib 1:3



Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2013-05-22\2013-05-22_005.xad

Created: 5/22/2013 6:02:15 PM
Modified: 5/22/2013 6:36:09 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
269F6 Lib 1:18		☐	✔			
712C7 Lib 1:12		☐	✔			
LE Lib 1:2		☐	✔			
NAB BITS 5 Lib 1:9		☐	✔			
SPB Lib 1:30		☐	✔			
SJSU Lib 1:2		☐	✔			
16s DIETS Lib 1:3		☐	✔			
sample 8		☐				
sample 9		☐				
sample 10		☐				
sample 11		☐				
Ladder		☐	✔			

Chip Lot # **Reagent Kit Lot #**

Chip Comments :

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2013-05-22\2013-05-22_005.xad

Created: 5/22/2013 6:02:15 PM
Modified: 5/22/2013 6:36:09 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

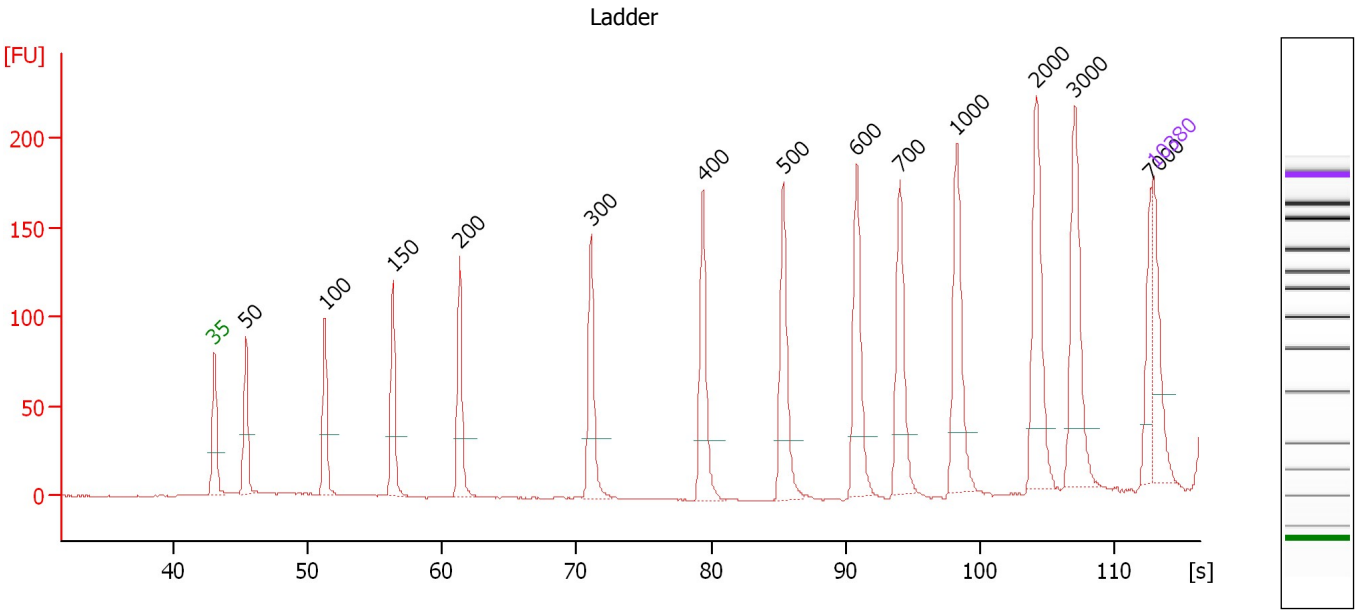
Ladder

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:\...ents and Settings\Bioanalyzer\2013-05-22\2013-05-22_005.xad

Created: 5/22/2013 6:02:15 PM
Modified: 5/22/2013 6:36:09 PM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.2

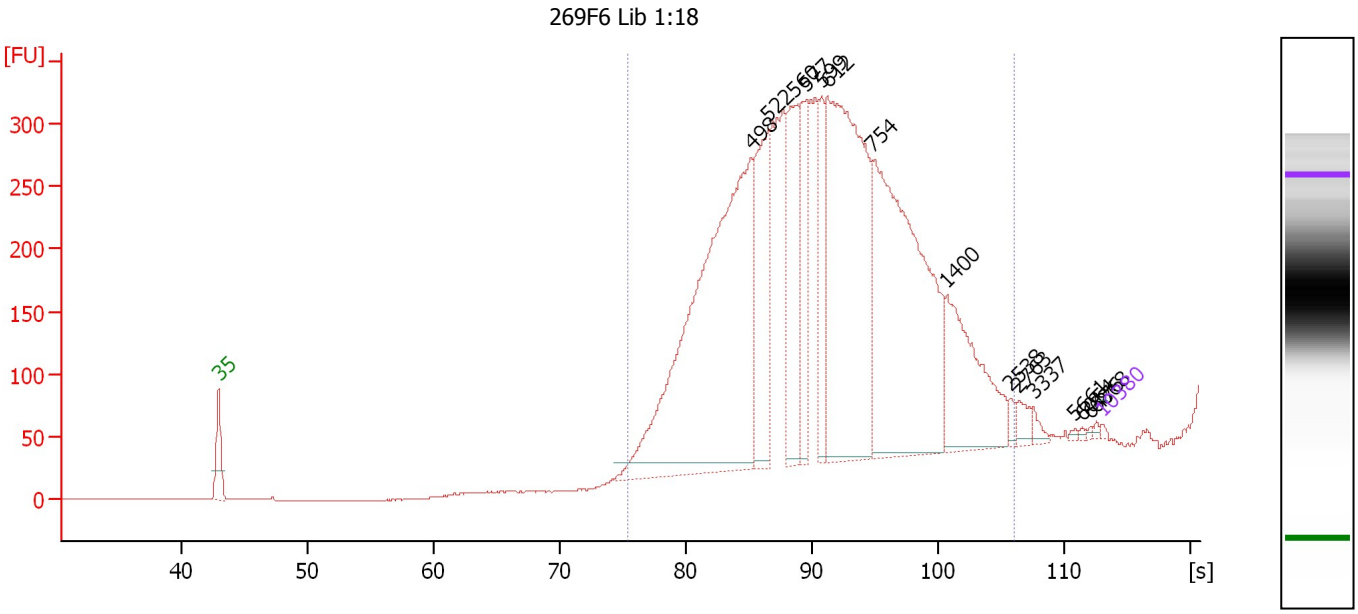
Peak table for Ladder

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

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2013-05-22\2013-05-22_005.xad

Created: 5/22/2013 6:02:15 PM
Modified: 5/22/2013 6:36:09 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : 269F6 Lib 1:18

Number of peaks found:	15	Corr. Area 1:	5,695.8
Noise:	0.3		

Peak table for sample 1 : 269F6 Lib 1:18

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	498	32,113.74	97,792.4	
3	522	7,825.34	22,705.4	
4	560	6,253.28	16,911.7	
5	577	4,554.03	11,967.8	
6	599	3,376.67	8,540.2	
7	612	21,042.92	52,134.2	
8	754	21,731.75	43,687.5	
9	1,400	6,430.33	6,961.2	
10	2,538	297.01	177.3	
11	2,763	588.90	322.9	
12	3,337	352.66	160.1	
13	5,661	101.23	27.1	
14	6,054	67.81	17.0	
15	6,476	71.95	16.8	
16	6,868	84.29	18.6	
17	10,380	75.00	10.9	Upper Marker

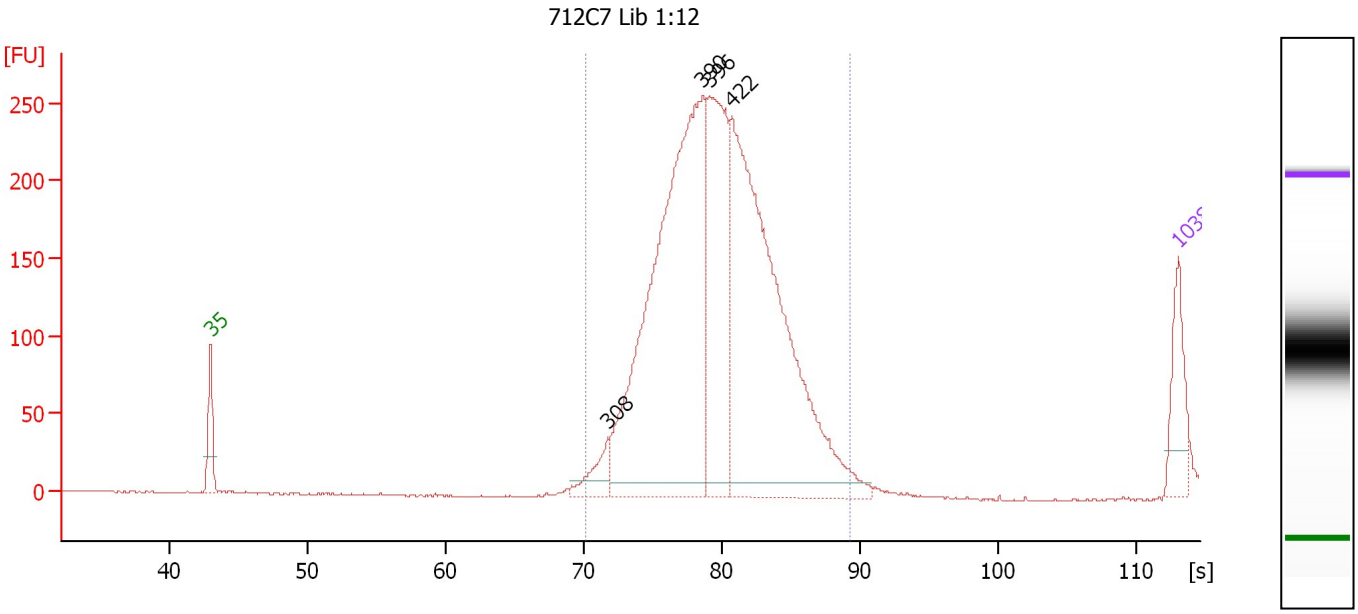
Region table for sample 1 : 269F6 Lib 1:18

From [s]	To [s]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/µl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
75.51	106.04	715	273,154.5	107,384.88	5,695.8	99	49.1	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2013-05-22\2013-05-22_005.xad

Created: 5/22/2013 6:02:15 PM
Modified: 5/22/2013 6:36:09 PM

Electropherogram Summary Continued ...



Setpoint Deviations for sample 2 : 712C7 Lib 1:12

Height Threshold [FU] : 10

Overall Results for sample 2 : 712C7 Lib 1:12

Number of peaks found:	4	Corr. Area 1:	3,176.0
Noise:	0.4		

Peak table for sample 2 : 712C7 Lib 1:12

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	308	68.25	336.0	
3	390	1,173.38	4,558.8	
4	396	447.04	1,712.4	
5	422	1,053.21	3,783.5	
6	10,380	75.00	10.9	Upper Marker

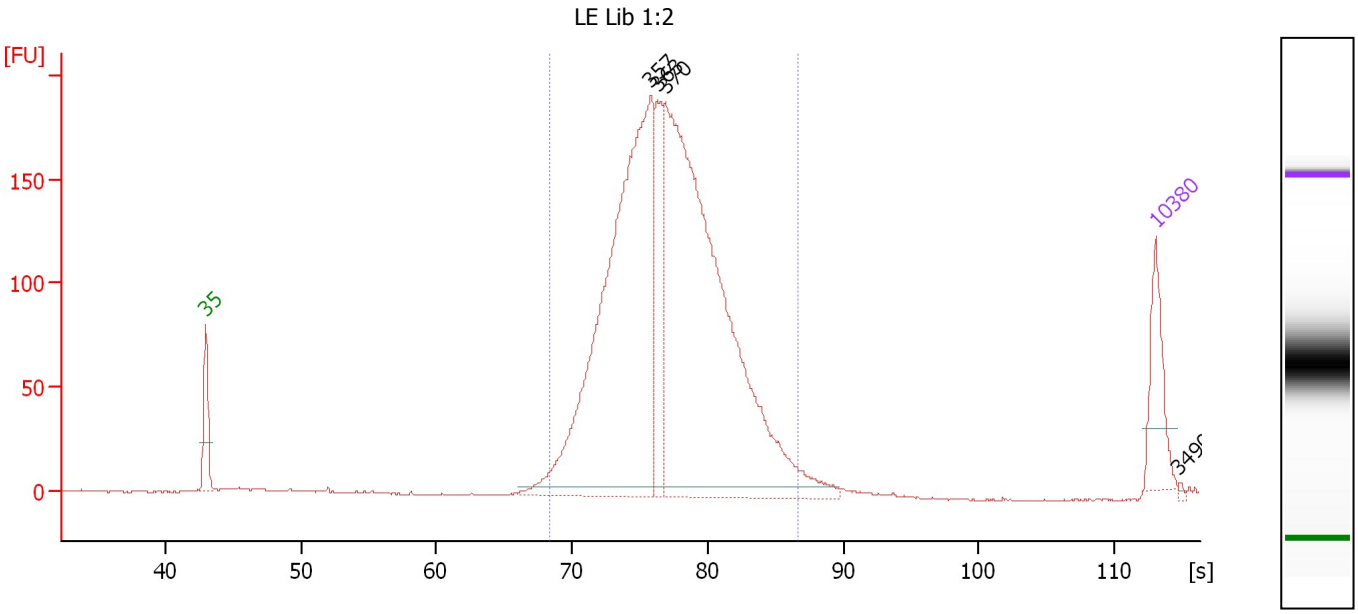
Region table for sample 2 : 712C7 Lib 1:12

From [s]	To [s]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/µl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
70.18	89.29	407	9,245.4	2,440.32	3,176.0	100	12.5	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2013-05-22\2013-05-22_005.xad

Created: 5/22/2013 6:02:15 PM
Modified: 5/22/2013 6:36:09 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : LE Lib 1:2

Number of peaks found:	4	Corr. Area 1:	2,523.8
Noise:	0.2		

Peak table for sample 3 : LE Lib 1:2

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	357	1,066.16	4,531.2	
3	363	162.28	678.0	
4	370	1,259.82	5,162.3	
5	10,380	75.00	10.9	Upper Marker
6	34,901	0.00	0.0	

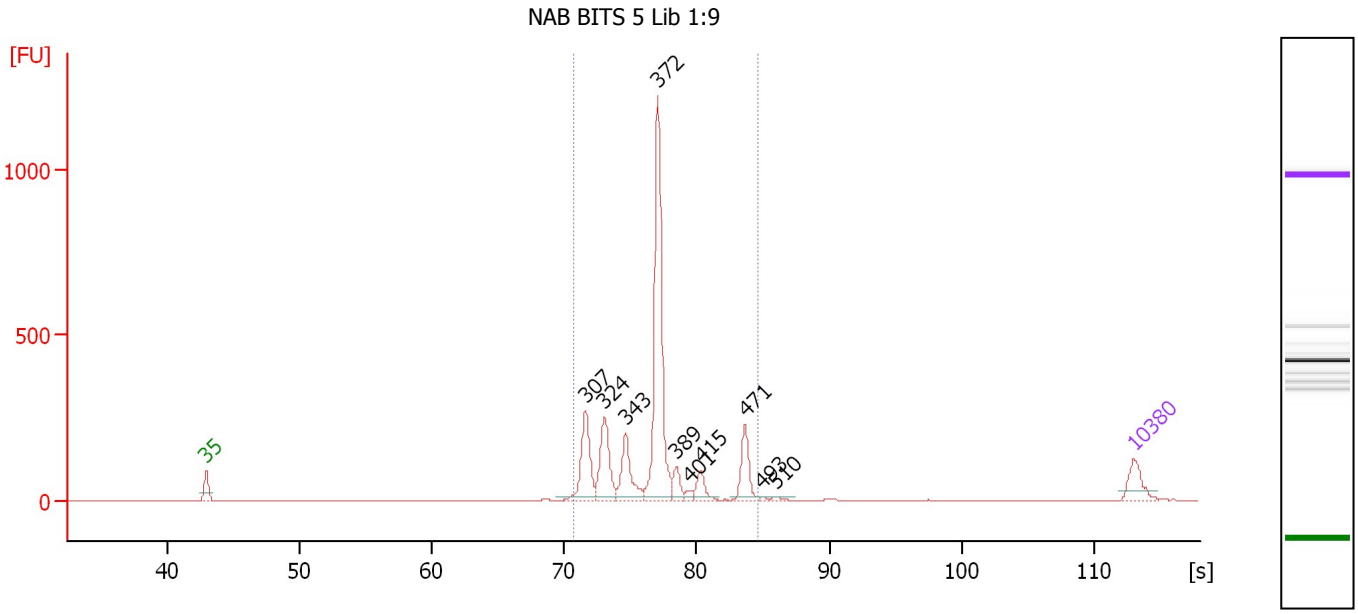
Region table for sample 3 : LE Lib 1:2

From [s]	To [s]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/µl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
68.42	86.64	374	9,774.8	2,365.63	2,523.8	98	12.9	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2013-05-22\2013-05-22_005.xad

Created: 5/22/2013 6:02:15 PM
Modified: 5/22/2013 6:36:09 PM

Electropherogram Summary Continued ...



Setpoint Deviations for sample 4 : NAB BITS 5 Lib 1:9

Height Threshold [FU] : 10

Overall Results for sample 4 : NAB BITS 5 Lib 1:9

Number of peaks found:	10	Corr. Area 1:	2,431.5
Noise:	0.2		

Peak table for sample 4 : NAB BITS 5 Lib 1:9

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	307	277.85	1,372.8	
3	324	256.17	1,197.9	
4	343	201.57	891.0	
5	372	868.33	3,539.6	
6	389	69.40	270.6	
7	401	20.90	79.0	
8	415	71.54	261.2	
9	471	151.68	487.8	
10	493	8.18	25.2	
11	510	13.03	38.7	
12	10,380	75.00	10.9	Upper Marker

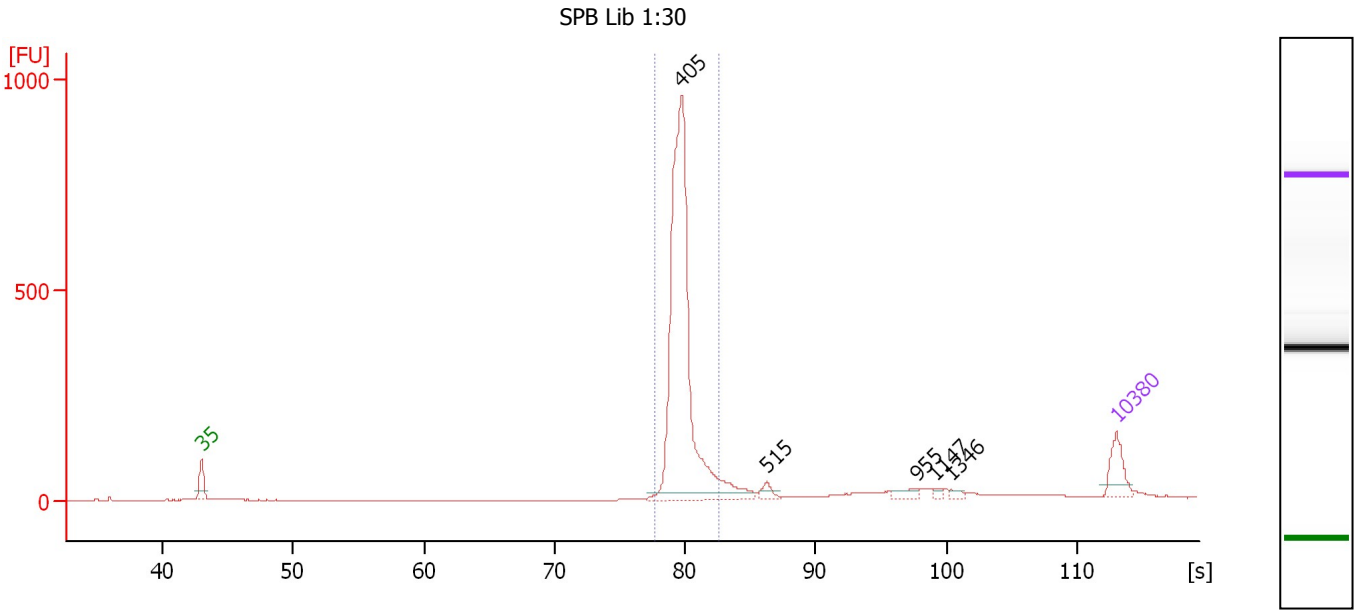
Region table for sample 4 : NAB BITS 5 Lib 1:9

From [s]	To [s]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/µl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
70.71	84.59	367	7,837.2	1,878.43	2,431.5	98	11.8	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2013-05-22\2013-05-22_005.xad

Created: 5/22/2013 6:02:15 PM
Modified: 5/22/2013 6:36:09 PM

Electropherogram Summary Continued ...



Setpoint Deviations for sample 5 : SPB Lib 1:30

Height Threshold [FU] : 20

Overall Results for sample 5 : SPB Lib 1:30

Number of peaks found:	5	Corr. Area 1:	1,995.0
Noise:	0.3		

Peak table for sample 5 : SPB Lib 1:30

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	405	1,398.44	5,227.9	
3	515	32.32	95.0	
4	955	26.86	42.6	
5	1,147	10.41	13.8	
6	1,346	11.94	13.4	
7	10,380	75.00	10.9	Upper Marker

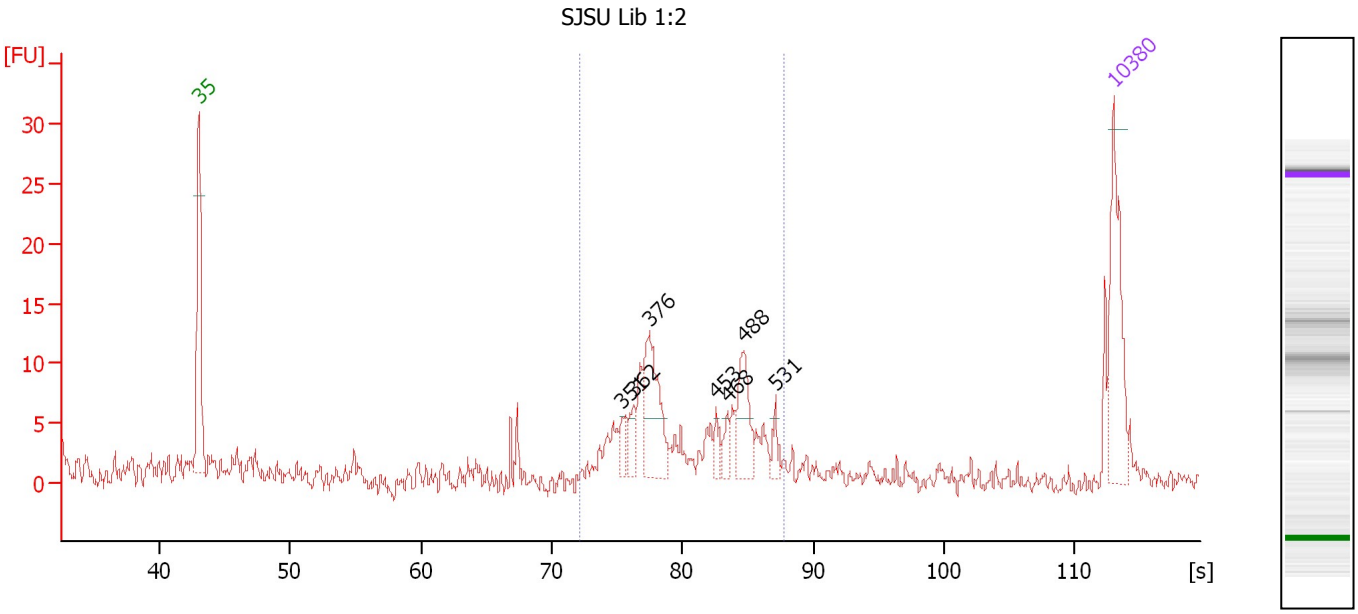
Region table for sample 5 : SPB Lib 1:30

From [s]	To [s]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/µl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
77.74	82.53	406	4,839.7	1,294.88	1,995.0	82	3.0	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2013-05-22\2013-05-22_005.xad

Created: 5/22/2013 6:02:15 PM
Modified: 5/22/2013 6:36:09 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : SJSU Lib 1:2

Number of peaks found:	7	Corr. Area 1:	94.3
Noise:	1.2		

Peak table for sample 6 : SJSU Lib 1:2

Peak		Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1		35	125.00	5,411.3	Lower Marker
2		351	16.77	72.3	
3		362	18.96	79.3	
4		376	92.29	371.7	
5		453	12.22	40.9	
6		468	12.31	39.9	
7		488	53.35	165.5	
8		531	12.66	36.1	
9		10,380	75.00	10.9	Upper Marker

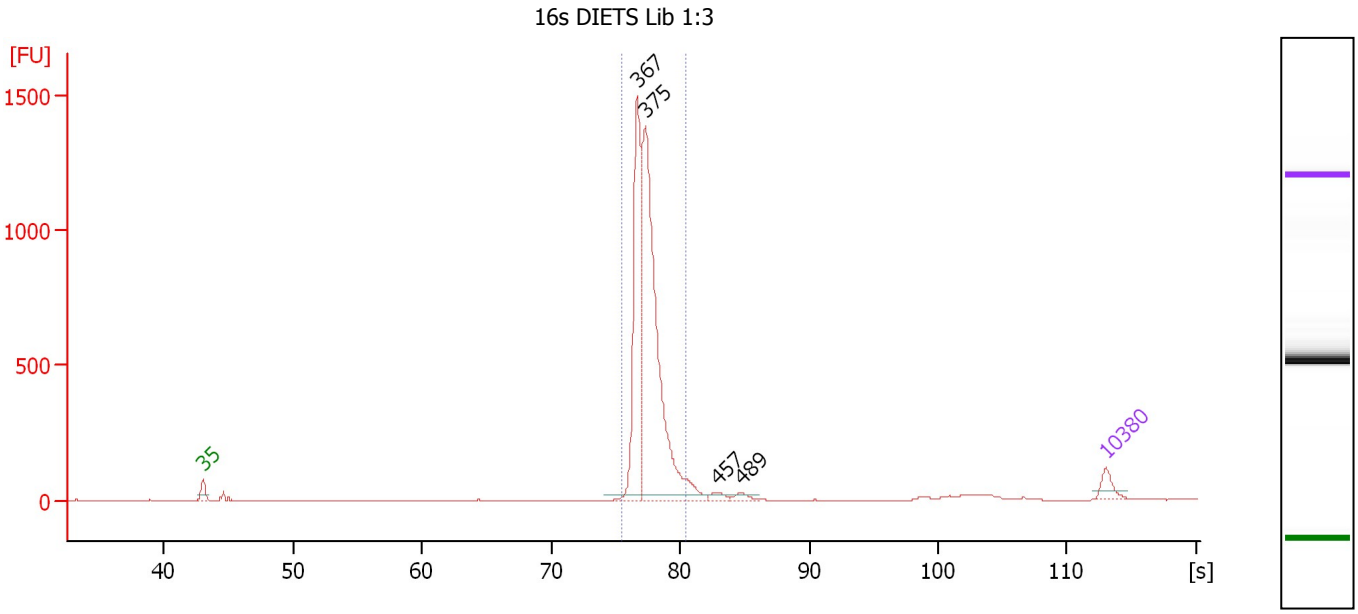
Region table for sample 6 : SJSU Lib 1:2

From [s]	To [s]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/µl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
72.21	87.68	420	1,428.0	384.97	94.3	58	14.5	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2013-05-22\2013-05-22_005.xad

Created: 5/22/2013 6:02:15 PM
Modified: 5/22/2013 6:36:09 PM

Electropherogram Summary Continued ...



Setpoint Deviations for sample 7 : 16s DIETS Lib 1:3

Height Threshold [FU] : 20

Overall Results for sample 7 : 16s DIETS Lib 1:3

Number of peaks found:	4	Corr. Area 1:	3,897.1
Noise:	0.3		

Peak table for sample 7 : 16s DIETS Lib 1:3

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	367	1,376.66	5,688.6	
3	375	2,589.30	10,473.1	
4	457	50.27	166.5	
5	489	46.22	143.3	
6	10,380	75.00	10.9	Upper Marker

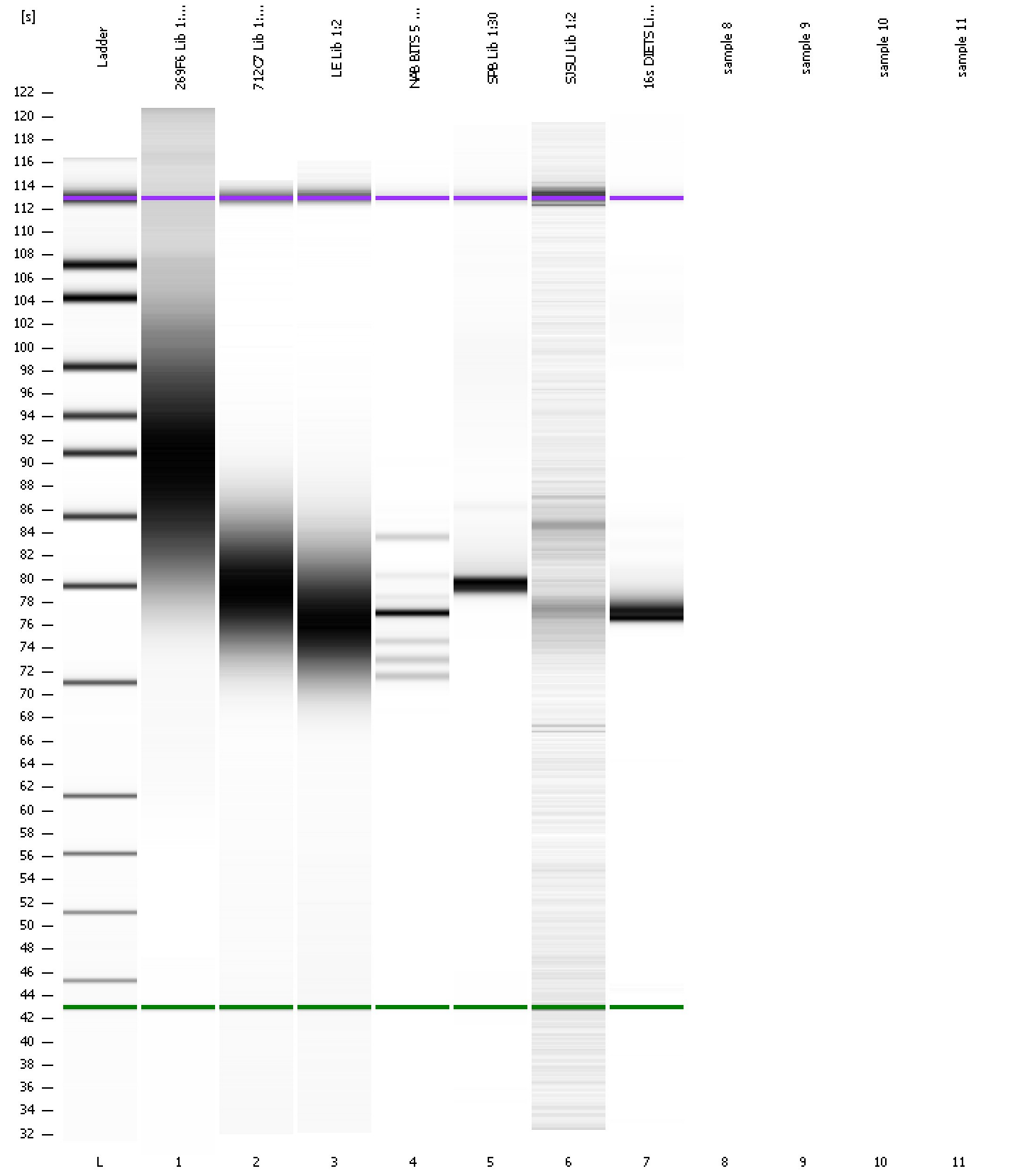
Region table for sample 7 : 16s DIETS Lib 1:3

From [s]	To [s]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/µl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
75.53	80.43	377	15,198.1	3,776.26	3,897.1	93	2.8	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2013-05-22\2013-05-22_005.xad

Created: 5/22/2013 6:02:15 PM
Modified: 5/22/2013 6:36:09 PM

Gel Image



Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2013-05-22\2013-05-22_005.xad

Created: 5/22/2013 6:02:15 PM
Modified: 5/22/2013 6:36:09 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:\...ents and Settings\Bioanalyzer\2013-05-22\2013-05-22_005.xad

Created: 5/22/2013 6:02:15 PM
Modified: 5/22/2013 6:36:09 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		5/22/2013 6:32:02 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2013-05-22\2013-05-22_005.xad)		Instrument	Run		5/22/2013 6:02:15 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		5/22/2013 6:02:15 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		5/22/2013 6:02:15 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		5/22/2013 6:02:15 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		5/22/2013 6:02:15 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		5/22/2013 6:02:15 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		5/22/2013 6:02:15 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1