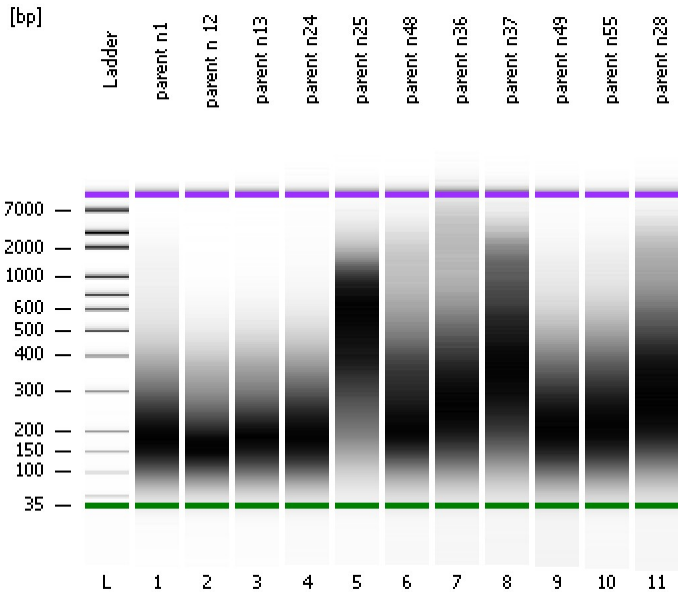


Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2014-11-25\2014-11-25_003.xad

Created: 11/25/2014 10:39:07 AM
Modified: 11/25/2014 11:22:30 AM

Electrophoresis File Run Summary



Instrument Information:

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

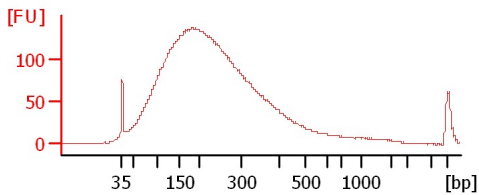
Assay Information:

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

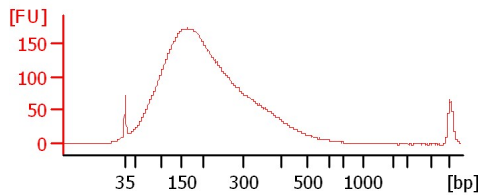
Chip Information:

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

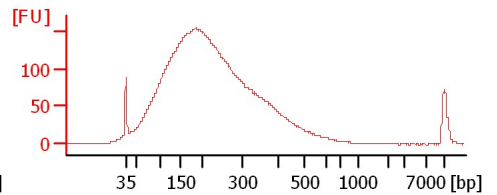
parent n1



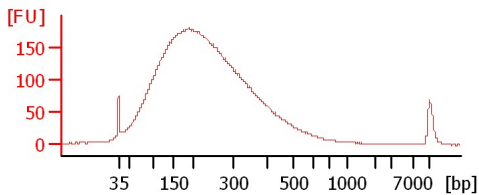
parent n12



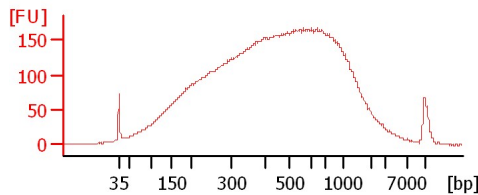
parent n13



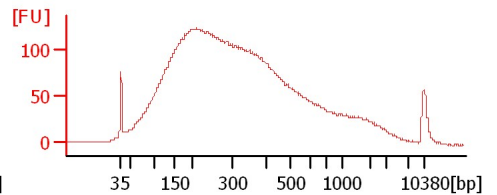
parent n24



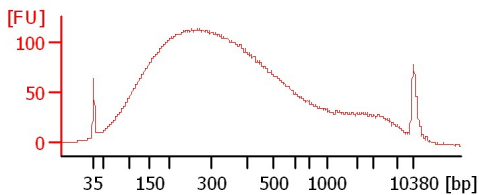
parent n25



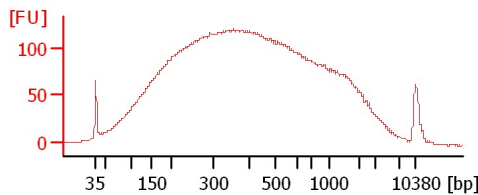
parent n48



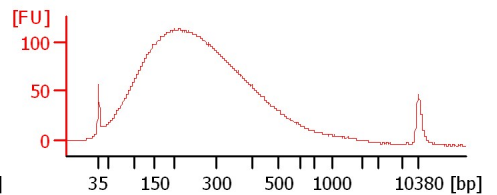
parent n36



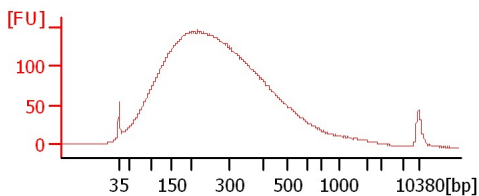
parent n37



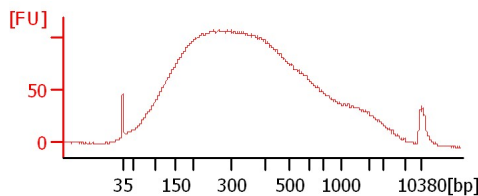
parent n49



parent n55



parent n28



Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-11-25\2014-11-25_003.xad

Created: 11/25/2014 10:39:07 AM
 Modified: 11/25/2014 11:22:30 AM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
parent n1		<input type="checkbox"/>	✓			
parent n 12		<input type="checkbox"/>	✓			
parent n13		<input type="checkbox"/>	✓			
parent n24		<input type="checkbox"/>	✓			
parent n25		<input type="checkbox"/>	✓			
parent n48		<input type="checkbox"/>	✓			
parent n36		<input type="checkbox"/>	✓			
parent n37		<input type="checkbox"/>	✓			
parent n49		<input type="checkbox"/>	✓			
parent n55		<input type="checkbox"/>	✓			
parent n28		<input type="checkbox"/>	✓			
Ladder		<input type="checkbox"/>	✓			

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-11-25\2014-11-25_003.xad

Created: 11/25/2014 10:39:07 AM
 Modified: 11/25/2014 11:22:30 AM

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

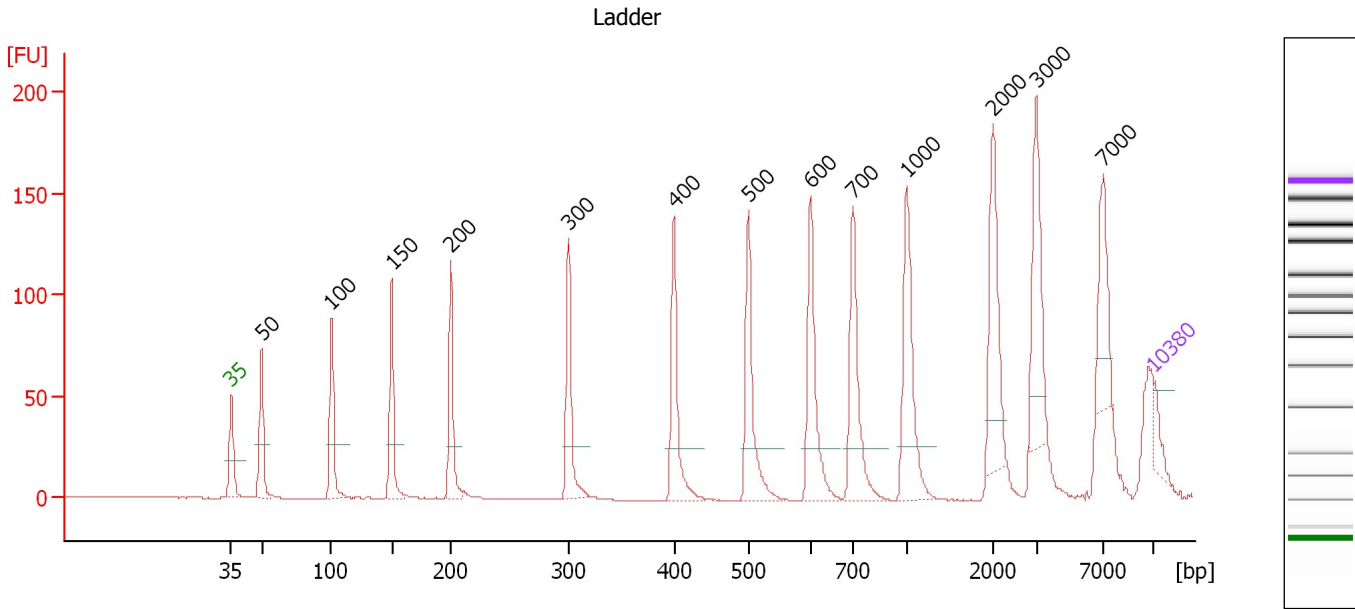
Ladder

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\2014-11-25\2014-11-25_003.xad

Created: 11/25/2014 10:39:07 AM
 Modified: 11/25/2014 11:22:30 AM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.1

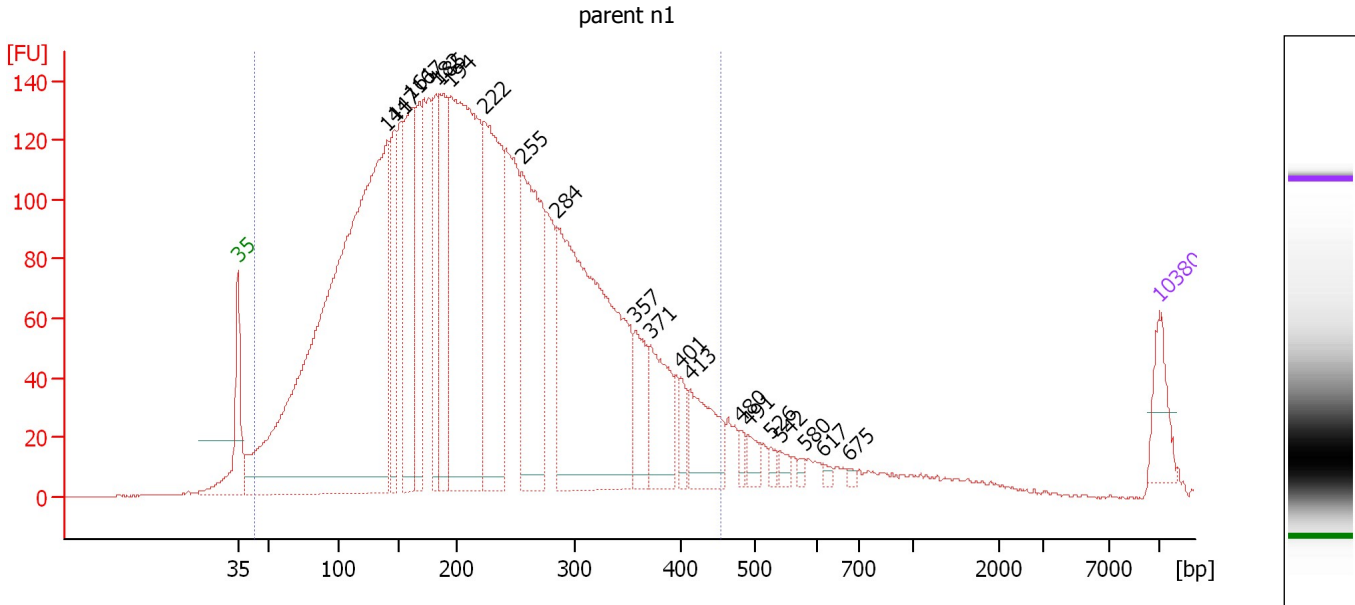
Peak table for Ladder

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

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-11-25\2014-11-25_003.xad

Created: 11/25/2014 10:39:07 AM
 Modified: 11/25/2014 11:22:30 AM

Electropherogram Summary Continued ...



Overall Results for sample 1 : parent n1

Number of peaks found: 21 Corr. Area 1: 5,117.4
 Noise: 0.2


Peak table for sample 1 : parent n1

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	141	3,027.97	32,572.1	
3	147	290.46	2,992.7	
4	161	495.78	4,666.3	
5	167	292.54	2,649.5	
6	182	284.61	2,373.0	
7	185	368.32	3,011.1	
8	194	1,260.11	9,823.7	
9	222	715.65	4,875.3	
10	255	606.01	3,606.7	
11	284	1,251.21	6,664.1	
12	357	147.42	625.1	
13	371	203.30	830.2	
14	401	50.06	189.3	
15	413	177.30	650.7	
16	480	21.41	67.6	
17	491	34.04	105.1	
18	526	19.10	55.0	
19	542	21.68	60.7	
20	580	10.26	26.8	
21	617	9.80	24.1	
22	675	7.20	16.2	
23	10,380	75.00	10.9	Upper Marker

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2014-11-25\2014-11-25_003.xad

Created: 11/25/2014 10:39:07 AM
Modified: 11/25/2014 11:22:30 AM

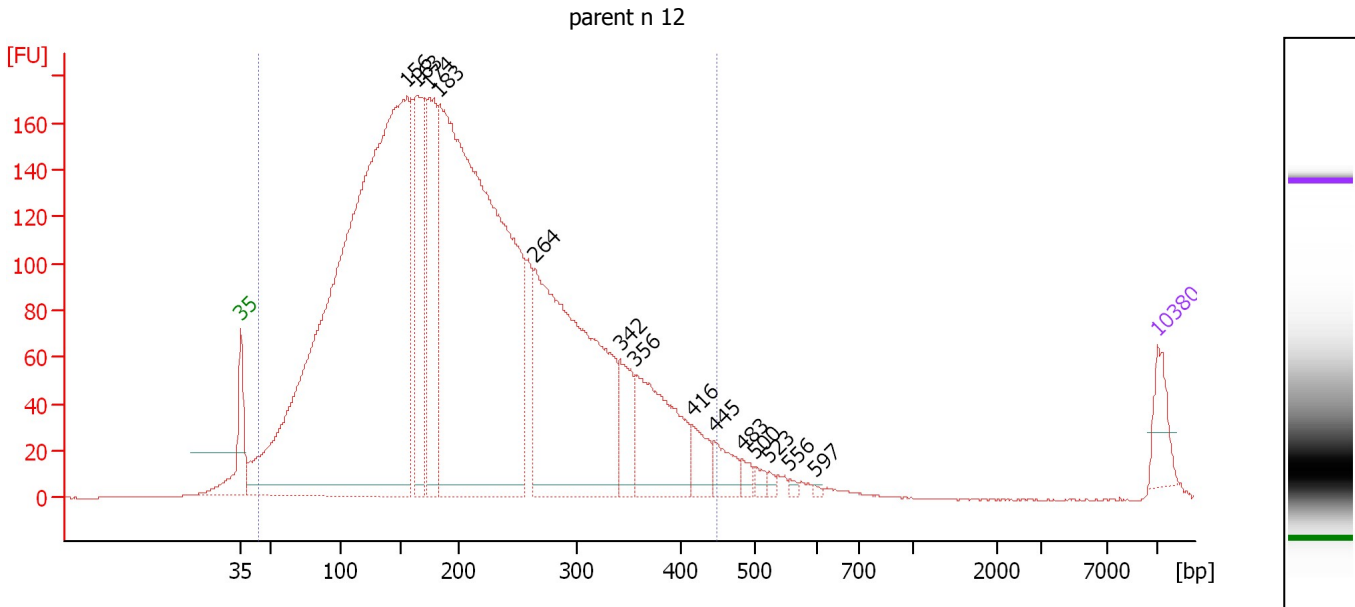
Electropherogram Summary Continued ...**... Region table for sample 1 : parent n1**

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Co lor
43	218	454	5,117.4	94	41.9	11,023.65	104,759.0	

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-11-25\2014-11-25_003.xad

Created: 11/25/2014 10:39:07 AM
 Modified: 11/25/2014 11:22:30 AM

Electropherogram Summary Continued ...



Overall Results for sample 2 : parent n 12

Number of peaks found: 14 Corr. Area 1: 5,723.8
 Noise: 0.2

Peak table for sample 2 : parent n 12

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	156	4,664.69	45,371.9	
3	163	626.69	5,808.4	
4	174	571.28	4,964.6	
5	183	3,449.11	28,563.7	
6	264	1,485.70	8,530.3	
7	342	177.04	785.0	
8	356	434.32	1,845.9	
9	416	97.75	356.3	
10	445	82.88	282.1	
11	483	31.24	98.0	
12	500	23.43	71.0	
13	523	12.87	37.3	
14	556	9.55	26.0	
15	597	6.09	15.5	
16	10,380	75.00	10.9	Upper Marker

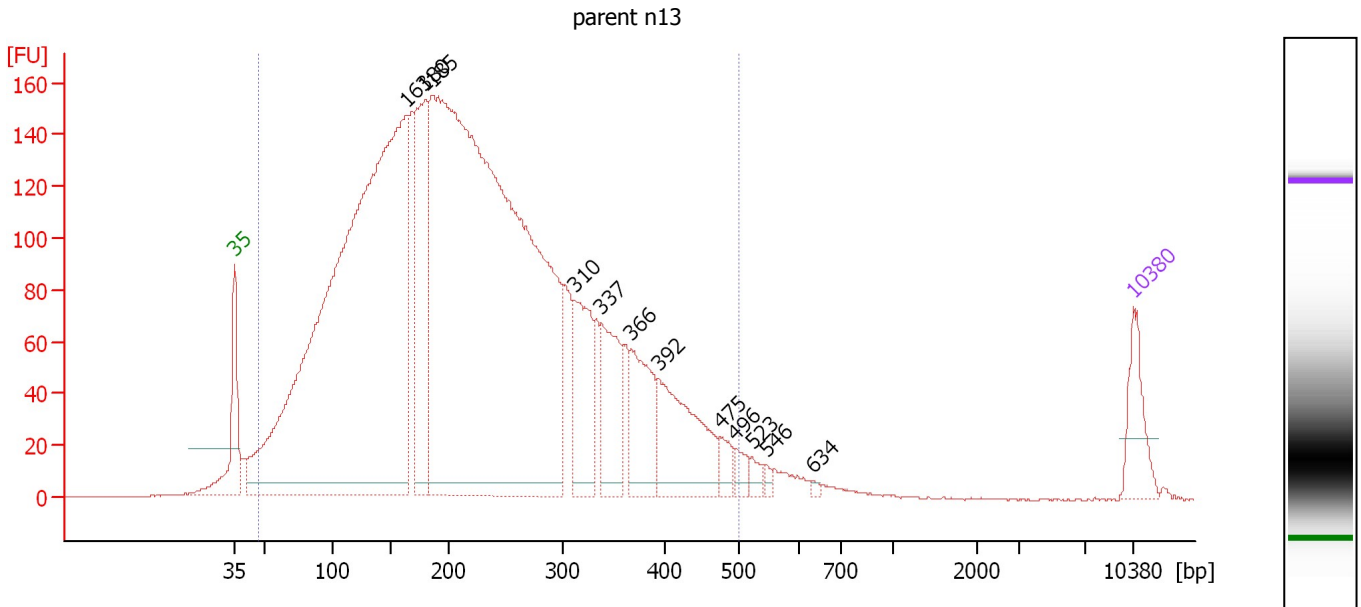
Region table for sample 2 : parent n 12

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
44	205	448	5,723.8	98	42.8	11,975.63	119,365.4	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-11-25\2014-11-25_003.xad

Created: 11/25/2014 10:39:07 AM
 Modified: 11/25/2014 11:22:30 AM

Electropherogram Summary Continued ...



Overall Results for sample 3 : parent n13

Number of peaks found: 12 Corr. Area 1: 5,537.8
 Noise: 0.2

Peak table for sample 3 : parent n13

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	163	2,981.57	27,672.9	
3	180	483.63	4,073.5	
4	185	3,549.68	29,003.9	
5	310	231.87	1,131.5	
6	337	206.17	926.8	
7	366	196.00	810.9	
8	392	271.14	1,047.3	
9	475	36.55	116.6	
10	496	28.33	86.5	
11	523	20.71	60.0	
12	546	9.46	26.3	
13	634	5.27	12.6	
14	10,380	75.00	10.9	Upper Marker

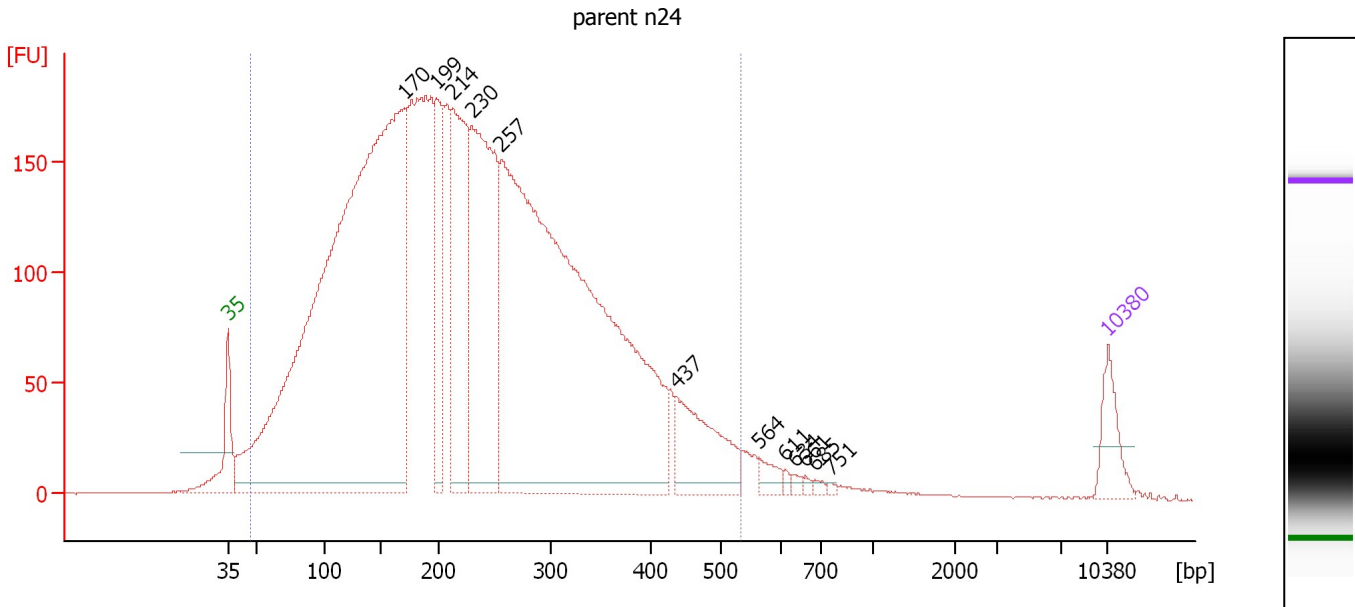
Region table for sample 3 : parent n13

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
47	223	500	5,537.8	97	43.3	8,442.68	78,584.2	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-11-25\2014-11-25_003.xad

Created: 11/25/2014 10:39:07 AM
 Modified: 11/25/2014 11:22:30 AM

Electropherogram Summary Continued ...



Overall Results for sample 4 : parent n24

Number of peaks found: 12 Corr. Area 1: 6,967.7
 Noise: 0.2

Peak table for sample 4 : parent n24

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	170	3,782.50	33,676.4	
3	199	338.48	2,577.4	
4	214	642.19	4,553.9	
5	230	905.30	5,957.0	
6	257	2,982.54	17,596.3	
7	437	260.80	905.0	
8	564	35.56	95.6	
9	611	8.33	20.6	
10	634	9.21	22.0	
11	661	6.88	15.8	
12	685	8.47	18.7	
13	751	4.92	9.9	
14	10,380	75.00	10.9	Upper Marker

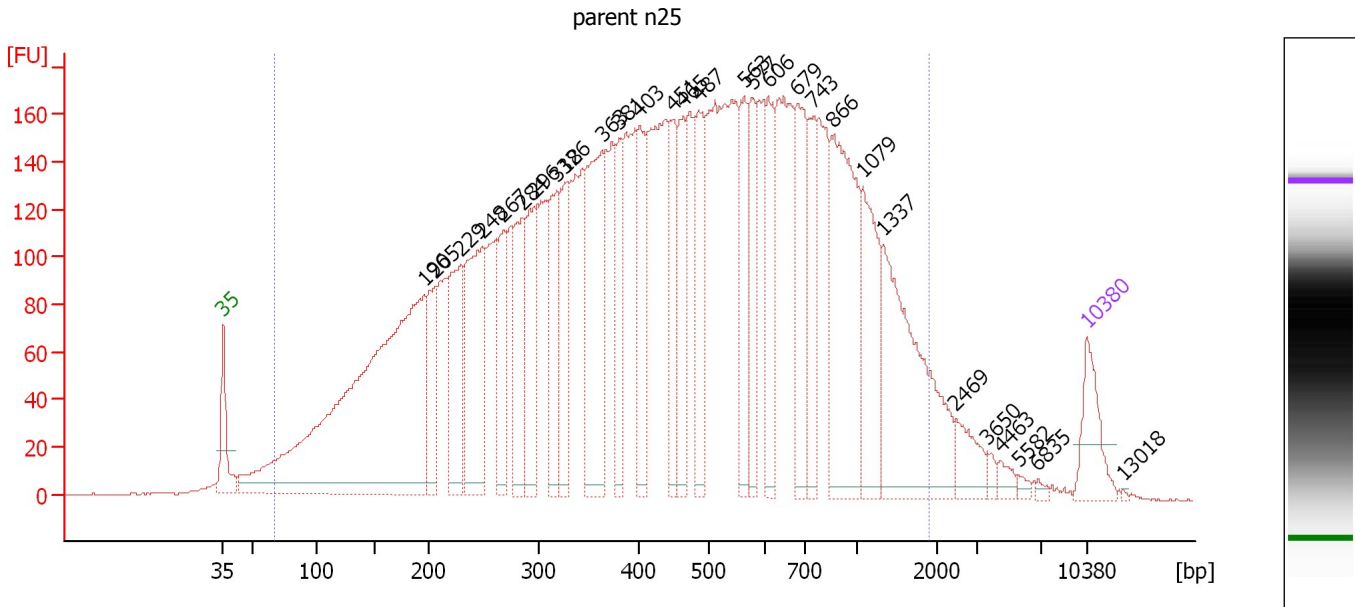
Region table for sample 4 : parent n24

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
47	232	532	6,967.7	97	43.7	10,485.10	95,058.4	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-11-25\2014-11-25_003.xad

Created: 11/25/2014 10:39:07 AM
 Modified: 11/25/2014 11:22:30 AM

Electropherogram Summary Continued ...



Overall Results for sample 5 : parent n25

Number of peaks found: 29 Corr. Area 1: 8,233.9
 Noise: 0.2

Peak table for sample 5 : parent n25

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	196	1,463.19	11,302.8	
3	205	158.50	1,169.8	
4	229	263.05	1,737.0	
5	248	378.93	2,312.4	
6	267	172.39	977.9	
7	284	202.14	1,078.4	
8	296	214.53	1,099.6	
9	318	185.22	883.0	
10	326	167.59	779.0	
11	363	361.18	1,506.1	
12	381	138.93	552.2	
13	403	166.31	626.0	
14	451	134.99	453.9	
15	465	162.55	529.6	
16	487	172.21	535.6	
17	563	151.15	407.0	
18	577	139.74	367.3	
19	606	151.20	378.1	
20	679	208.03	464.0	
21	743	134.90	275.2	
22	866	383.26	670.2	
23	1,079	196.59	276.1	
24	1,337	361.60	409.7	
25	2,469	55.02	33.8	
26	3,650	11.08	4.6	


Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2014-11-25\2014-11-25_003.xad

Created: 11/25/2014 10:39:07 AM
Modified: 11/25/2014 11:22:30 AM

Electropherogram Summary Continued ...**... Peak table for sample 5 : parent n25**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
27	4,463	16.46	5.6	
28	5,582	8.24	2.2	
29	6,835	5.59	1.2	
30	10,380	75.00	10.9	Upper Marker
31	13,018	0.00	0.0	

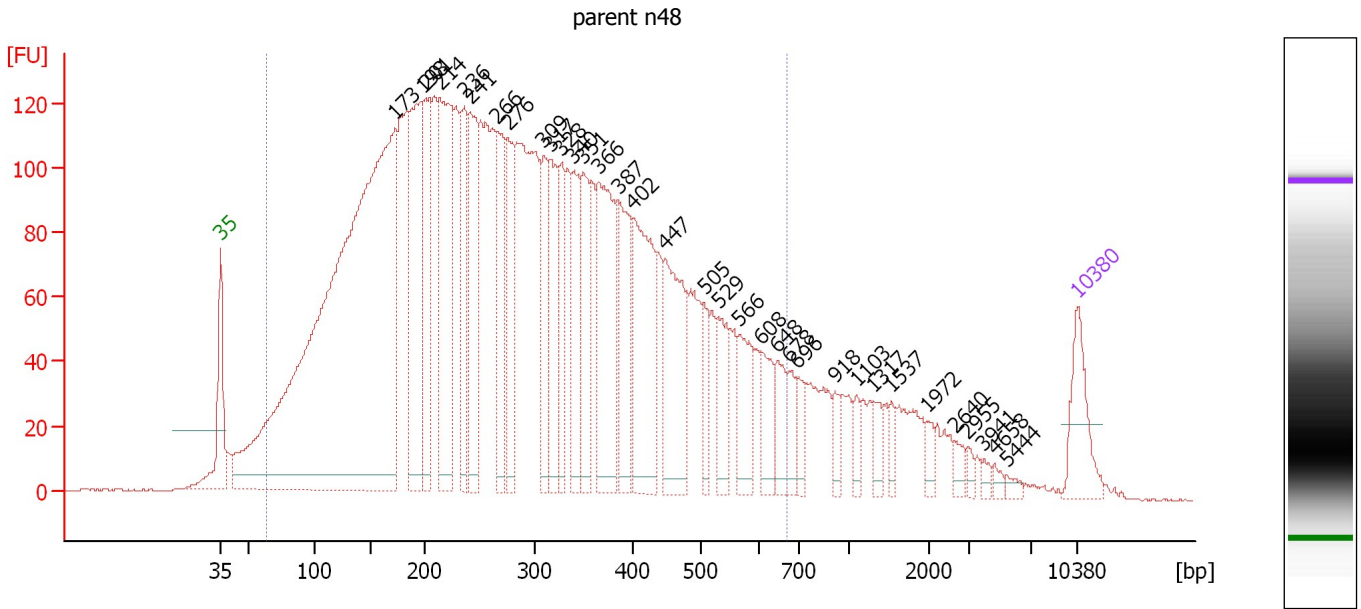
Region table for sample 5 : parent n25

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
67	528	1,914	8,233.9	96	65.2	9,537.69	48,672.6	

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-11-25\2014-11-25_003.xad

Created: 11/25/2014 10:39:07 AM
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Electropherogram Summary Continued ...



Overall Results for sample 6 : parent n48

Number of peaks found: 34 Corr. Area 1: 5,584.9
 Noise: 0.2

Peak table for sample 6 : parent n48

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	173	2,320.70	20,337.3	
3	198	392.78	3,011.6	
4	201	227.82	1,717.2	
5	214	437.09	3,099.5	
6	236	188.54	1,210.2	
7	241	261.85	1,643.4	
8	266	187.34	1,066.1	
9	276	201.70	1,107.3	
10	309	137.78	675.4	
11	317	171.49	820.3	
12	328	119.57	552.9	
13	340	157.11	699.6	
14	351	143.43	619.8	
15	366	310.82	1,287.0	
16	387	174.35	683.2	
17	402	278.10	1,048.2	
18	447	225.53	763.9	
19	505	57.35	172.1	
20	529	94.44	270.4	
21	566	92.29	246.9	
22	608	65.09	162.3	
23	648	56.94	133.1	
24	678	39.76	88.9	
25	696	37.57	81.8	
26	918	25.75	42.5	

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-11-25\2014-11-25_003.xad

Created: 11/25/2014 10:39:07 AM
 Modified: 11/25/2014 11:22:30 AM

Electropherogram Summary Continued ...

... Peak table for sample 6 : parent n48

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
27	1,103	21.60	29.7	
28	1,317	23.93	27.5	
29	1,537	17.30	17.0	
30	1,972	16.92	13.0	
31	2,640	15.90	9.1	
32	2,955	8.99	4.6	
33	3,941	8.53	3.3	
34	4,658	8.17	2.7	
35	5,444	8.50	2.4	
36	▶ 10,380	75.00	10.9	Upper Marker

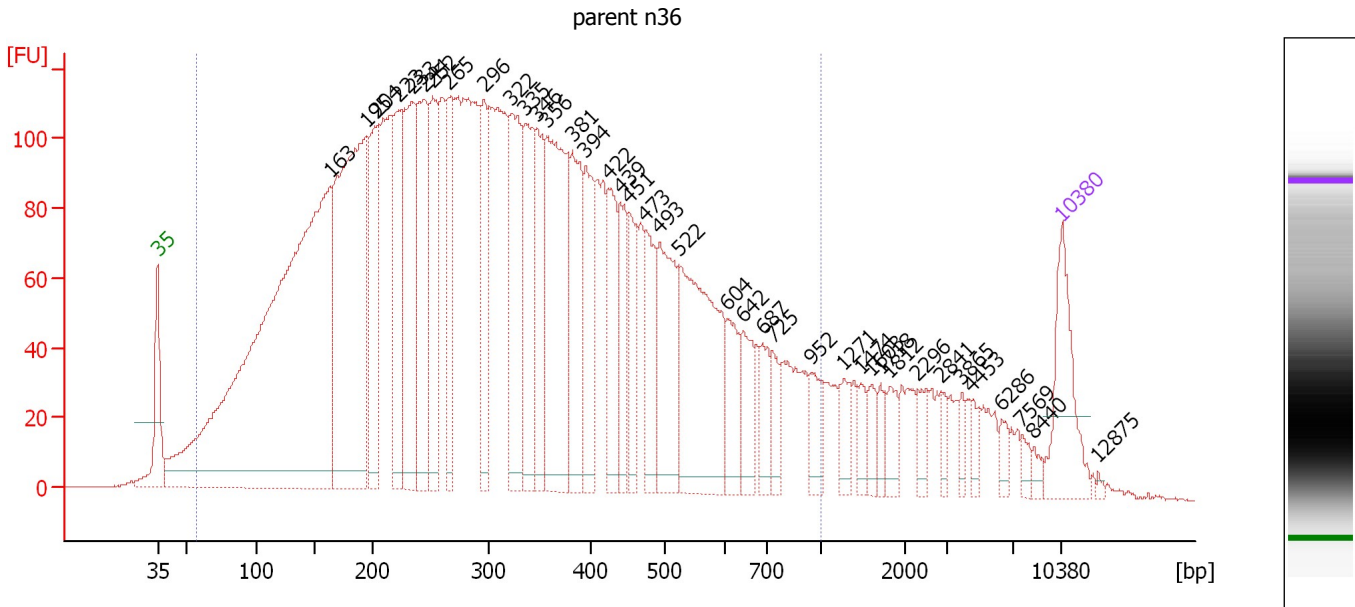
Region table for sample 6 : parent n48

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
64	297	673	5,584.9	90	45.9	8,734.53	64,617.2	■

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-11-25\2014-11-25_003.xad

Created: 11/25/2014 10:39:07 AM
 Modified: 11/25/2014 11:22:30 AM

Electropherogram Summary Continued ...



Overall Results for sample 7 : parent n36

Number of peaks found: 39 Corr. Area 1: 5,594.6
 Noise: 0.2

Peak table for sample 7 : parent n36

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	163	1,267.85	11,777.0	
3	195	546.11	4,253.7	
4	204	177.28	1,317.6	
5	223	149.19	1,015.5	
6	233	230.04	1,493.1	
7	244	198.99	1,234.2	
8	252	151.56	912.4	
9	265	113.08	646.5	
10	296	103.09	527.6	
11	322	165.32	777.6	
12	335	136.21	615.3	
13	346	117.11	513.0	
14	356	264.02	1,122.4	
15	381	133.20	529.3	
16	394	98.66	379.4	
17	422	94.01	337.6	
18	439	71.05	245.2	
19	451	63.56	213.7	
20	473	80.73	258.4	
21	493	131.56	404.5	
22	522	244.18	708.4	
23	604	54.04	135.5	
24	642	50.14	118.2	
25	687	35.87	79.1	
26	725	31.50	65.8	

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-11-25\2014-11-25_003.xad


Created: 11/25/2014 10:39:07 AM
 Modified: 11/25/2014 11:22:30 AM

Electropherogram Summary Continued ...

... Peak table for sample 7 : parent n36

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
27	952	32.99	52.5	
28	1,271	24.44	29.1	
29	1,474	18.25	18.8	
30	1,603	17.63	16.7	
31	1,718	14.10	12.4	
32	1,812	22.58	18.9	
33	2,296	17.93	11.8	
34	2,841	11.71	6.2	
35	3,865	11.14	4.4	
36	4,453	13.65	4.6	
37	6,286	11.92	2.9	
38	7,569	8.80	1.8	
39	8,440	6.87	1.2	
40	10,380	75.00	10.9	Upper Marker
41	12,875	0.00	0.0	

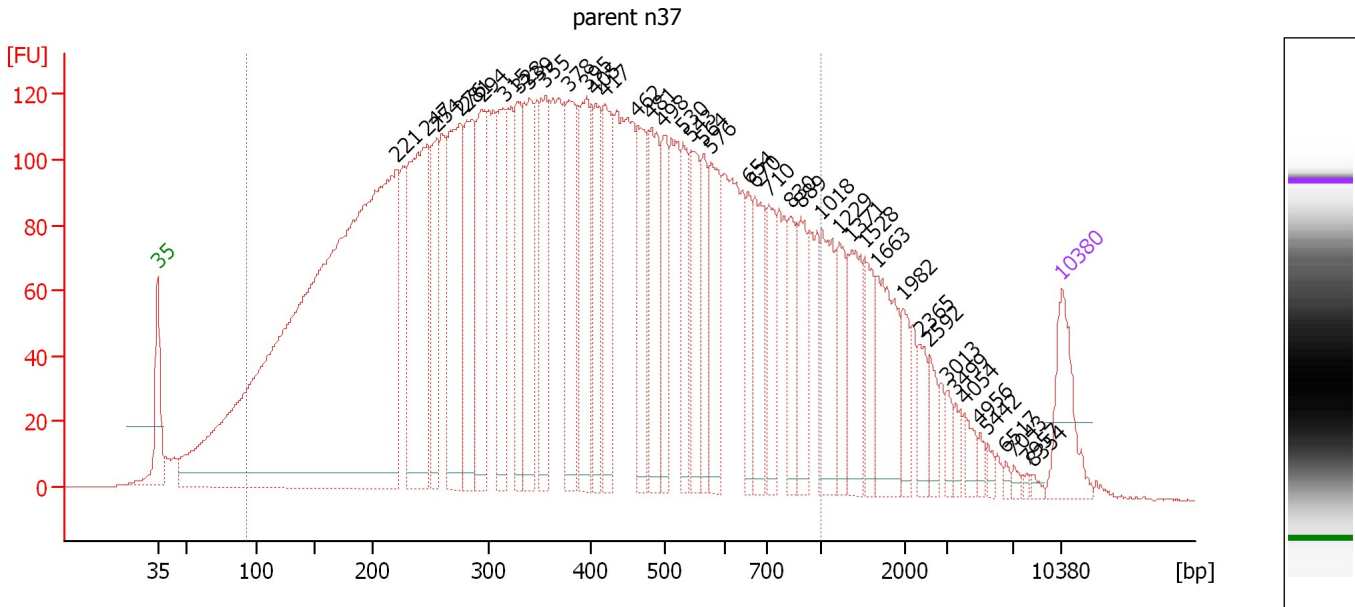
Region table for sample 7 : parent n36

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
57	336	1,000	5,594.6	91	52.4	6,195.97	43,273.0	

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-11-25\2014-11-25_003.xad

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Electropherogram Summary Continued ...



Overall Results for sample 8 : parent n37

Number of peaks found: 43 Corr. Area 1: 6,097.4
 Noise: 0.2

Peak table for sample 8 : parent n37

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	221	2,103.90	14,438.2	
3	247	405.46	2,487.2	
4	254	134.55	801.3	
5	276	305.45	1,678.8	
6	281	215.44	1,161.2	
7	294	182.97	943.0	
8	315	185.66	893.4	
9	328	134.56	621.2	
10	339	197.70	882.9	
11	355	182.62	779.8	
12	378	189.62	760.9	
13	395	174.27	668.9	
14	405	121.31	453.7	
15	417	151.26	549.8	
16	462	138.59	454.4	
17	481	148.92	469.3	
18	498	103.54	315.0	
19	530	83.68	239.4	
20	543	105.58	294.7	
21	564	76.81	206.5	
22	576	129.99	342.1	
23	654	65.35	151.5	
24	670	113.01	255.5	
25	710	86.53	184.6	
26	830	77.47	141.4	

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-11-25\2014-11-25_003.xad


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Electropherogram Summary Continued ...

... Peak table for sample 8 : parent n37

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
27	889	77.79	132.6	
28	1,018	104.35	155.2	
29	1,229	63.66	78.5	
30	1,371	92.16	101.8	
31	1,528	55.79	55.3	
32	1,663	112.09	102.1	
33	1,982	38.42	29.4	
34	2,365	30.84	19.8	
35	2,592	26.52	15.5	
36	3,013	16.14	8.1	
37	3,499	14.17	6.1	
38	4,054	18.65	7.0	
39	4,956	8.57	2.6	
40	5,442	8.04	2.2	
41	6,517	5.36	1.2	
42	7,043	5.35	1.2	
43	7,957	3.36	0.6	
44	8,354	4.21	0.8	
45	10,380	75.00	10.9	Upper Marker

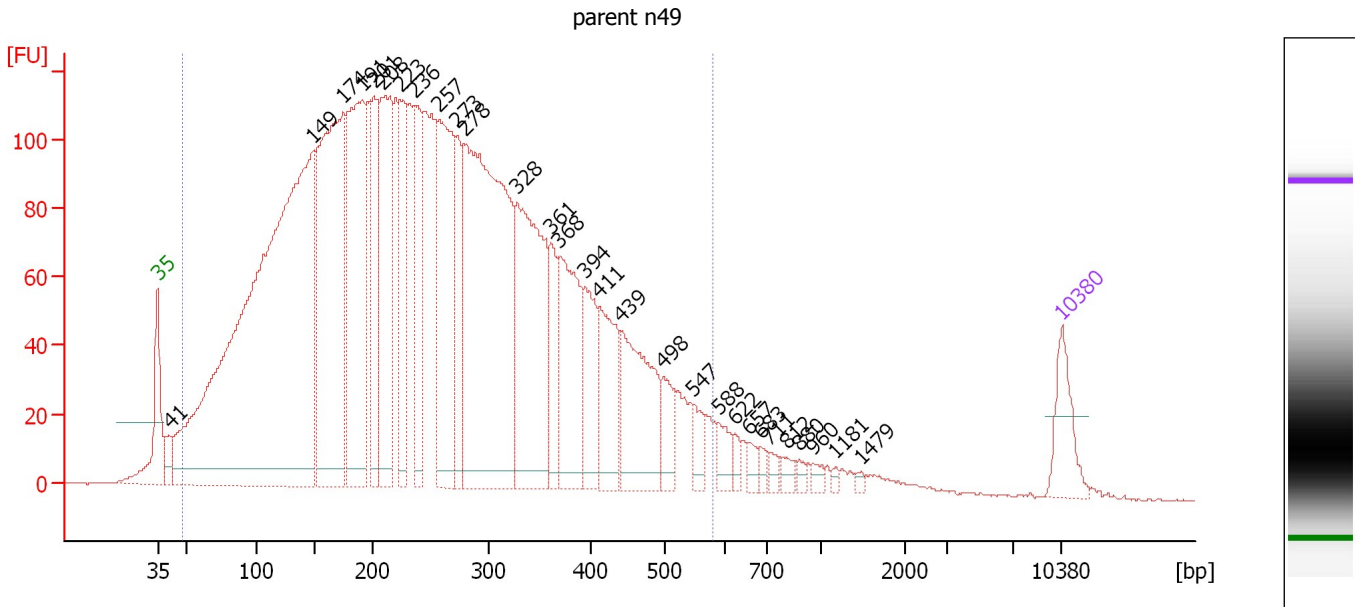
Region table for sample 8 : parent n37

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/µl]	Molarity [pmol/l]	Color
92	399	1,000	6,097.3	86	49.1	7,900.55	44,719.8	

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-11-25\2014-11-25_003.xad

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Electropherogram Summary Continued ...



Overall Results for sample 9 : parent n49

Number of peaks found: 29 Corr. Area 1: 4,855.1
 Noise: 0.2

Peak table for sample 9 : parent n49

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	41	51.24	1,892.3	
3	149	2,471.61	25,217.5	
4	174	931.37	8,109.6	
5	191	615.55	4,890.5	
6	201	267.75	2,023.0	
7	208	438.75	3,197.1	
8	223	234.19	1,589.6	
9	236	238.47	1,530.7	
10	257	473.01	2,785.8	
11	273	173.18	962.7	
12	278	1,076.93	5,859.6	
13	328	533.82	2,466.9	
14	361	111.57	468.9	
15	368	287.07	1,181.1	
16	394	151.18	581.8	
17	411	173.16	638.9	
18	439	264.60	912.3	
19	498	70.99	216.1	
20	547	37.95	105.1	
21	588	38.97	100.5	
22	622	16.16	39.4	
23	657	19.30	44.5	
24	683	15.65	34.7	
25	711	16.25	34.6	
26	812	19.43	36.3	

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-11-25\2014-11-25_003.xad


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Electropherogram Summary Continued ...

... Peak table for sample 9 : parent n49

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
27	880	11.25	19.4	
28	960	12.35	19.5	
29	1,181	5.85	7.5	
30	1,479	7.03	7.2	
31	10,380	75.00	10.9	Upper Marker

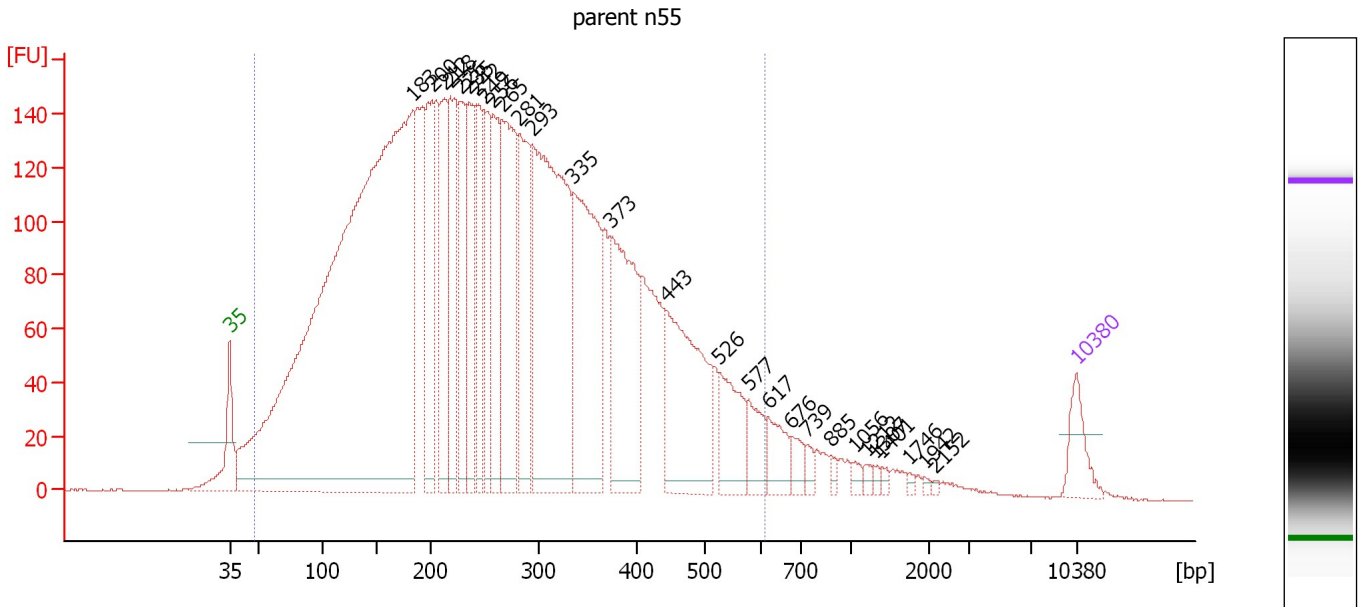
Region table for sample 9 : parent n49

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
47	255	580	4,855.1	95	45.1	9,878.60	84,572.1	

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-11-25\2014-11-25_003.xad

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Electropherogram Summary Continued ...



Overall Results for sample 10 : parent n55

Number of peaks found: 28 Corr. Area 1: 6,403.4
 Noise: 0.2

Peak table for sample 10 : parent n55

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	183	4,503.78	37,263.1	
3	200	380.97	2,881.9	
4	212	372.36	2,659.7	
5	218	413.49	2,879.9	
6	226	312.23	2,089.5	
7	235	369.26	2,383.0	
8	242	296.43	1,854.6	
9	249	266.82	1,623.2	
10	256	337.37	1,993.2	
11	265	608.30	3,473.7	
12	281	387.65	2,089.5	
13	293	1,179.06	6,088.6	
14	335	710.75	3,218.4	
15	373	544.45	2,209.8	
16	443	502.58	1,717.7	
17	526	187.04	538.4	
18	577	92.09	241.8	
19	617	89.28	219.2	
20	676	46.51	104.3	
21	739	25.29	51.8	
22	885	14.42	24.7	
23	1,056	16.65	23.9	
24	1,212	13.75	17.2	
25	1,307	8.89	10.3	
26	1,401	10.48	11.3	

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-11-25\2014-11-25_003.xad


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Electropherogram Summary Continued ...

... Peak table for sample 10 : parent n55

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
27	1,746	6.54	5.7	
28	1,942	6.42	5.0	
29	2,152	4.46	3.1	
30	10,380	75.00	10.9	Upper Marker

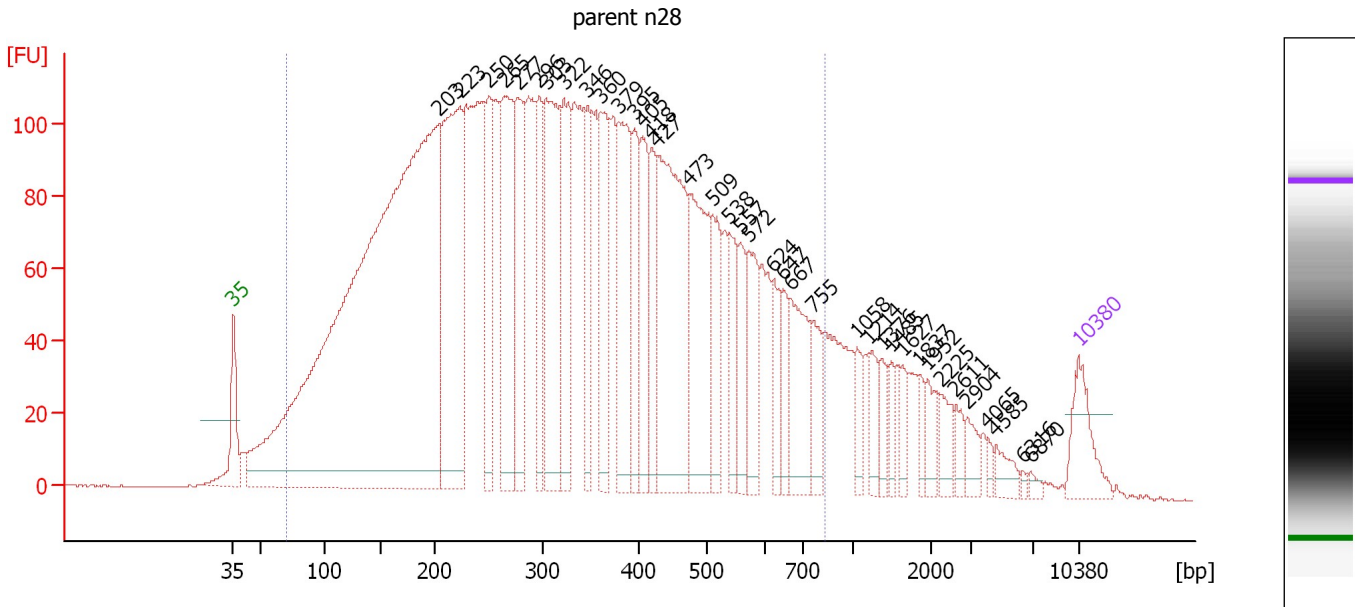
Region table for sample 10 : parent n55

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
48	267	606	6,403.4	95	45.4	13,579.79	111,907.9	

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-11-25\2014-11-25_003.xad

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Electropherogram Summary Continued ...



Overall Results for sample 11 : parent n28

Number of peaks found: 38 Corr. Area 1: 5,403.5
 Noise: 0.2

Peak table for sample 11 : parent n28

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	203	2,918.84	21,773.2	
3	223	647.48	4,392.3	
4	250	191.03	1,157.7	
5	265	368.77	2,109.9	
6	277	233.24	1,275.0	
7	296	183.74	939.2	
8	303	384.16	1,919.9	
9	322	268.16	1,261.8	
10	346	159.57	699.1	
11	360	217.94	918.2	
12	379	274.07	1,095.6	
13	395	143.45	550.9	
14	405	156.28	585.0	
15	418	132.96	481.9	
16	427	487.44	1,731.3	
17	473	293.22	938.6	
18	509	124.34	370.0	
19	538	105.85	297.9	
20	557	88.40	240.4	
21	572	124.67	330.1	
22	624	74.61	181.2	
23	647	55.40	129.7	
24	667	160.19	363.7	
25	755	72.93	146.3	
26	1,058	40.47	58.0	

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-11-25\2014-11-25_003.xad

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Electropherogram Summary Continued ...

... Peak table for sample 11 : parent n28

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
27	1,214	43.10	53.8	
28	1,376	31.29	34.4	
29	1,485	27.89	28.5	
30	1,627	30.20	28.1	
31	1,837	23.50	19.4	
32	1,952	39.02	30.3	
33	2,225	38.18	26.0	
34	2,611	24.86	14.4	
35	2,904	28.49	14.9	
36	4,065	10.17	3.8	
37	4,585	27.14	9.0	
38	6,316	5.07	1.2	
39	6,870	7.44	1.6	
40	▶ 10,380	75.00	10.9	Upper Marker

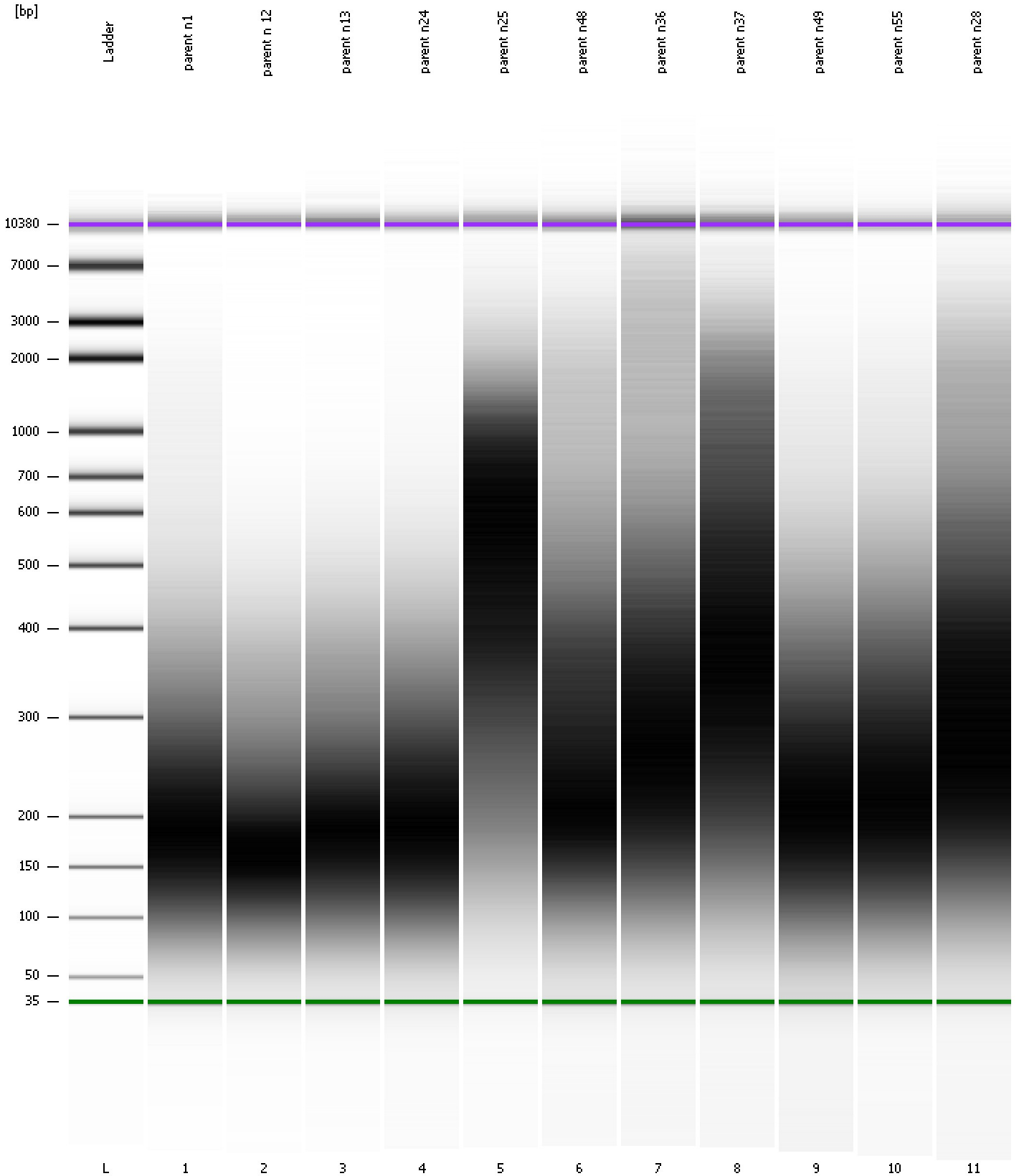
Region table for sample 11 : parent n28

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
70	337	833	5,403.5	90	47.0	10,234.90	68,183.5	■

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2014-11-25\2014-11-25_003.xad

Created: 11/25/2014 10:39:07 AM
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Gel Image



Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-11-25\2014-11-25_003.xad

Created: 11/25/2014 10:39:07 AM
 Modified: 11/25/2014 11:22:30 AM

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		11/25/2014 11:19:29 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2014-11-25\2014-11-25_003.xad)		Instrument	Run		11/25/2014 10:39:08 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		11/25/2014 10:39:08 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		11/25/2014 10:39:08 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		11/25/2014 10:39:08 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		11/25/2014 10:39:08 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		11/25/2014 10:39:08 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		11/25/2014 10:39:08 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1