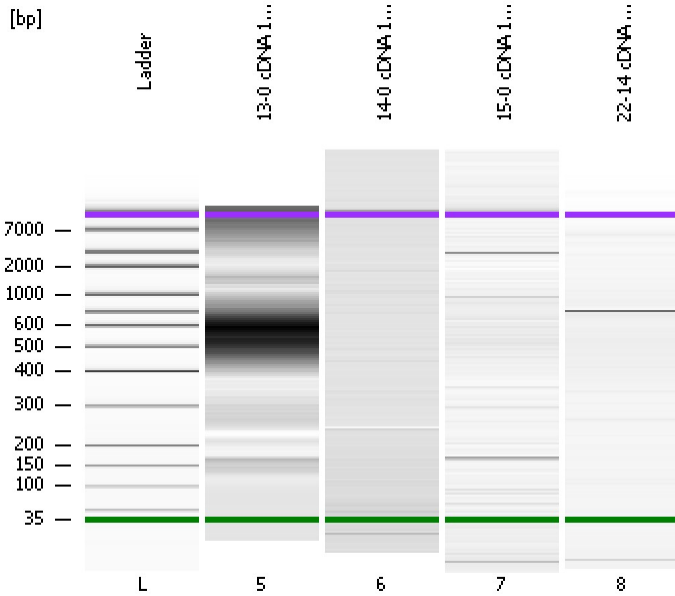


Assay Class: High Sensitivity DNA Assay
Data Path: C:\... Settings\Bioanalyzer\2013-10-24\2013-10-24_005_HL_cDNA.xad

Created: 10/24/2013 1:31:01 PM
Modified: 10/26/2013 10:42:46 AM

Electrophoresis File Run Summary



Instrument Information:

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

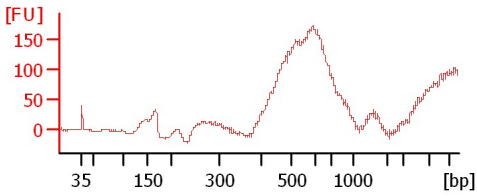
Assay Information:

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

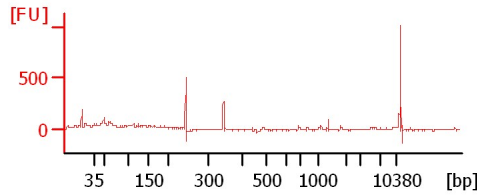
Chip Information:

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

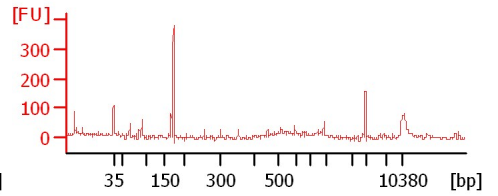
13-0 cDNA 1:18



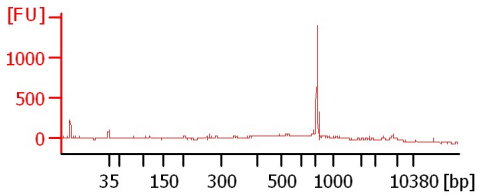
14-0 cDNA 1:20



15-0 cDNA 1:20



22-14 cDNA 1:20



Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... Settings\Bioanalyzer\2013-10-24\2013-10-24_005_HL_cDNA.xad

Created: 10/24/2013 1:31:01 PM
 Modified: 10/26/2013 10:42:46 AM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
13-0 cDNA 1:18		<input type="checkbox"/>	✓			
14-0 cDNA 1:20		<input type="checkbox"/>	✓			
15-0 cDNA 1:20		<input type="checkbox"/>	✓			
22-14 cDNA 1:20		<input type="checkbox"/>	✓			
Ladder		<input type="checkbox"/>	✓			

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... Settings\Bioanalyzer\2013-10-24\2013-10-24_005_HL_cDNA.xad

Created: 10/24/2013 1:31:01 PM
Modified: 10/26/2013 10:42:46 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

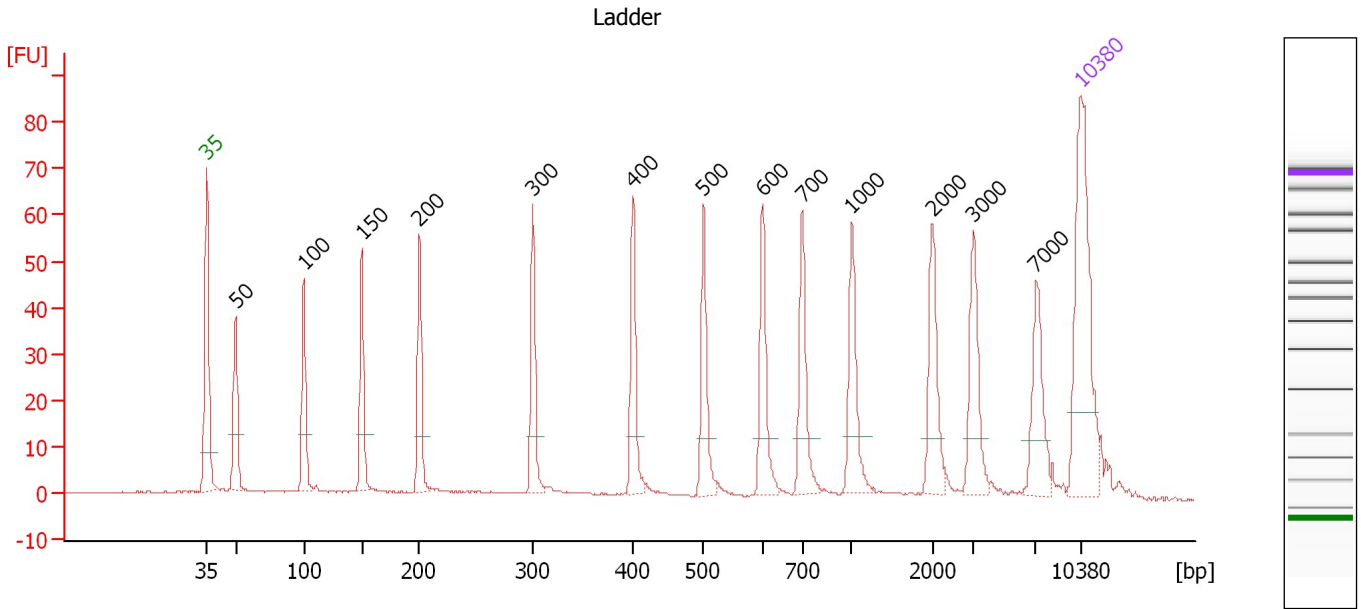
Ladder

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:\... Settings\Bioanalyzer\2013-10-24\2013-10-24_005_HL_cDNA.xad

Created: 10/24/2013 1:31:01 PM
 Modified: 10/26/2013 10:42:46 AM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.2

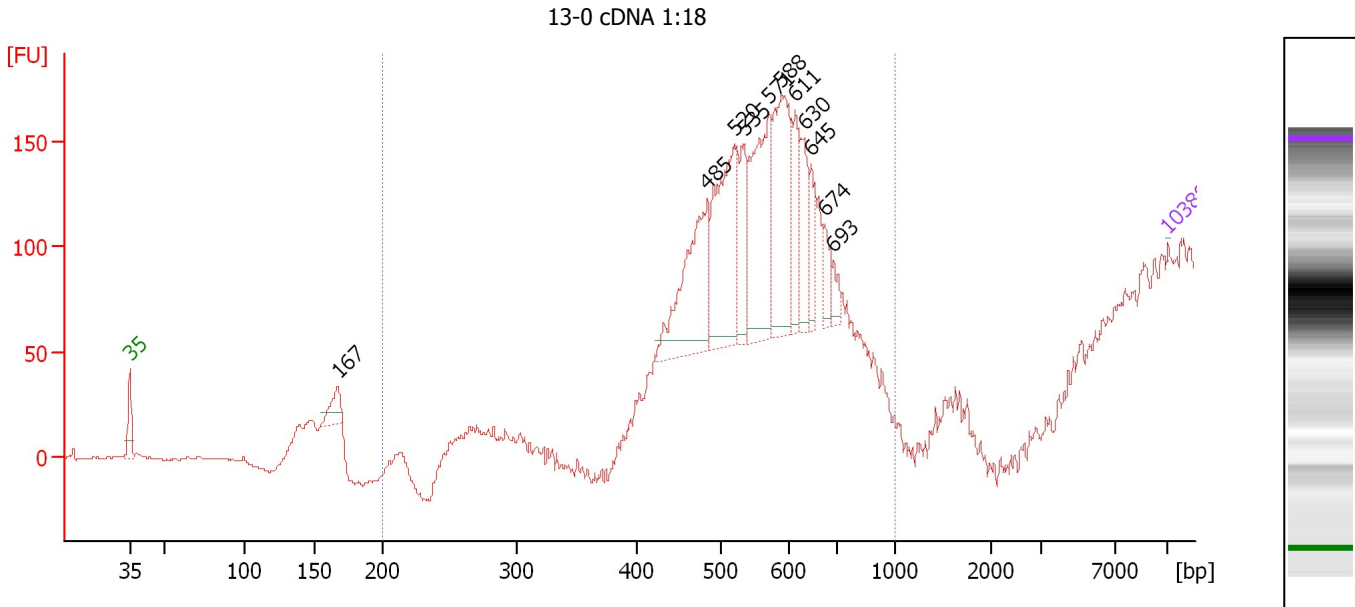
Peak table for Ladder

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:\... Settings\Bioanalyzer\2013-10-24\2013-10-24_005_HL_cDNA.xad

Created: 10/24/2013 1:31:01 PM
 Modified: 10/26/2013 10:42:46 AM

Electropherogram Summary Continued ...



Overall Results for sample 5 : 13-0 cDNA 1:18

Number of peaks found: 11 Corr. Area 1: 1,156.4
 Noise: 0.4

Peak table for sample 5 : 13-0 cDNA 1:18

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	167	3,624.99	32,817.2	
3	485	17,114.14	53,462.1	
4	520	18,436.44	53,686.3	
5	535	6,049.45	17,136.6	
6	571	17,234.11	45,742.2	
7	588	15,677.46	40,365.2	
8	611	5,563.24	13,791.9	
9	630	5,231.20	12,575.9	
10	645	3,785.81	8,895.1	
11	674	2,752.99	6,188.2	
12	693	1,554.51	3,398.0	
13	10,380	75.00	10.9	Upper Marker

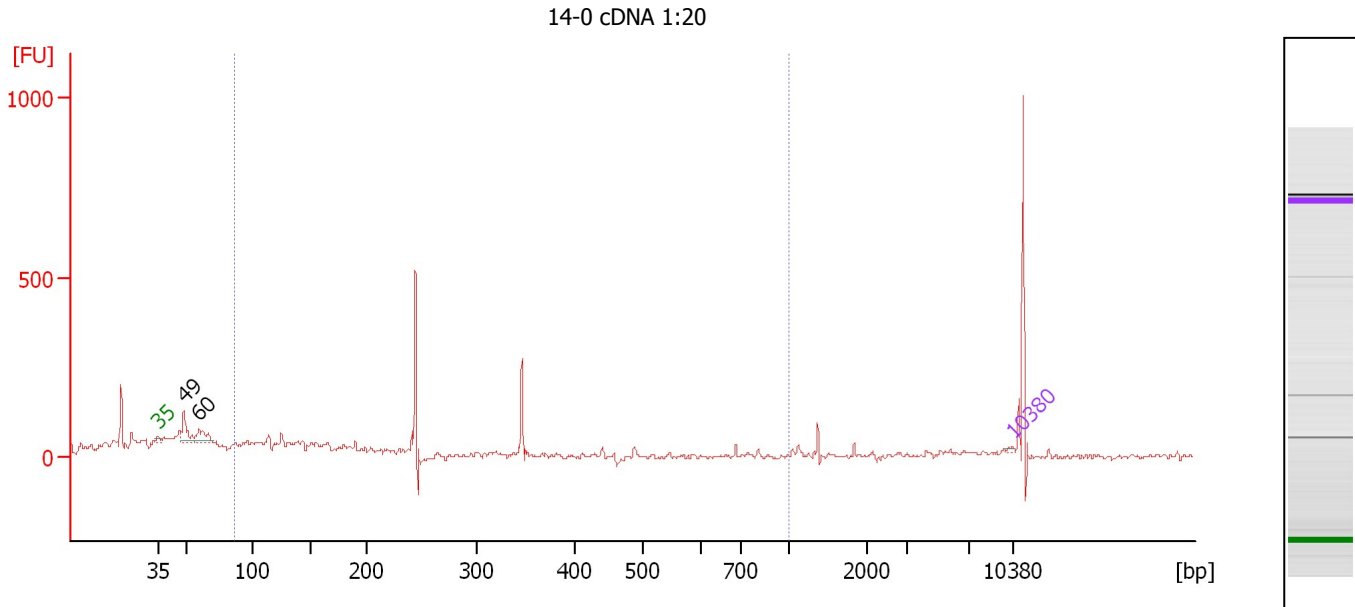
Region table for sample 5 : 13-0 cDNA 1:18

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
200	1,000	560	248,468.9	90,255.38	1,156.4	99	11.3	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... Settings\Bioanalyzer\2013-10-24\2013-10-24_005_HL_cDNA.xad

Created: 10/24/2013 1:31:01 PM
 Modified: 10/26/2013 10:42:46 AM

Electropherogram Summary Continued ...



Overall Results for sample 6 : 14-0 cDNA 1:20

Number of peaks found: 2 Corr. Area 1: 462.0
 Noise: 7.4

Peak table for sample 6 : 14-0 cDNA 1:20

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	49	1,362.75	42,501.0	
3	60	1,228.70	31,264.8	
4	10,380	75.00	10.9	Upper Marker

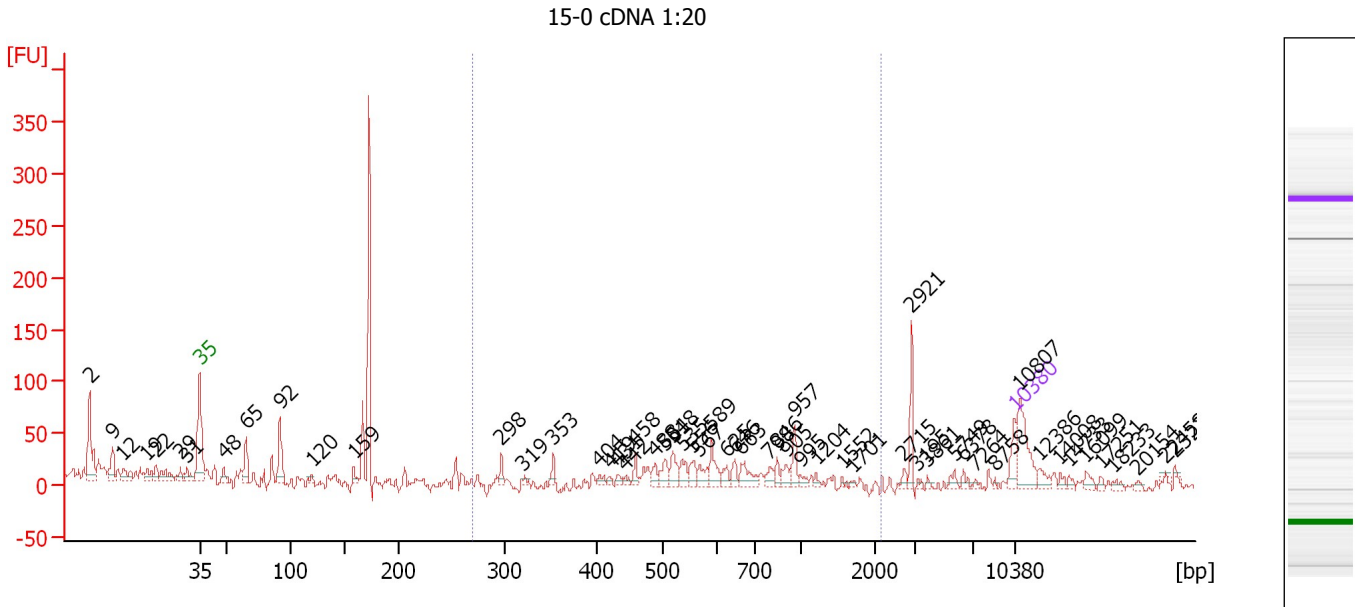
Region table for sample 6 : 14-0 cDNA 1:20

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
86	1,000	228	49,751.2	5,472.95	462.0	34	47.9	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... Settings\Bioanalyzer\2013-10-24\2013-10-24_005_HL_cDNA.xad

Created: 10/24/2013 1:31:01 PM
 Modified: 10/26/2013 10:42:46 AM

Electropherogram Summary Continued ...



Overall Results for sample 7 : 15-0 cDNA 1:20

Number of peaks found: 56 Corr. Area 1: 230.4
 Noise: 6.8

Peak table for sample 7 : 15-0 cDNA 1:20


Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	2	0.00	0.0	
2	9	0.00	0.0	
3	12	0.00	0.0	
4	19	0.00	0.0	
5	22	0.00	0.0	
6	29	0.00	0.0	
7	31	0.00	0.0	
8	35	125.00	5,411.3	Lower Marker
9	48	54.66	1,710.4	
10	65	144.12	3,339.8	
11	92	206.14	3,402.4	
12	120	26.51	335.0	
13	159	39.67	378.3	
14	298	43.48	221.1	
15	319	19.57	92.9	
16	353	39.74	170.6	
17	404	27.05	101.5	
18	419	15.82	57.2	
19	431	22.47	79.1	
20	442	18.65	63.9	
21	458	43.50	143.8	
22	488	42.40	131.8	
23	504	64.04	192.7	
24	518	78.61	229.9	
25	535	58.85	166.7	
26	556	58.51	159.4	

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... Settings\Bioanalyzer\2013-10-24\2013-10-24_005_HL_cDNA.xad


Created: 10/24/2013 1:31:01 PM
 Modified: 10/26/2013 10:42:46 AM

Electropherogram Summary Continued ...

... Peak table for sample 7 : 15-0 cDNA 1:20

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
27	567	54.22	144.9	
28	589	89.97	231.3	
29	625	38.11	92.4	
30	646	42.57	99.8	
31	663	85.42	195.2	
32	798	40.62	77.1	
33	846	34.67	62.1	
34	905	44.42	74.3	
35	957	66.17	104.7	
36	995	22.36	34.0	
37	1,204	15.36	19.3	
38	1,552	9.54	9.3	
39	1,701	7.91	7.0	
40	2,715	19.21	10.7	
41	2,921	100.07	51.9	
42	3,195	8.53	4.0	
43	3,861	9.19	3.6	
44	5,749	22.86	6.0	
45	6,378	20.09	4.8	
46	7,264	7.09	1.5	
47	8,758	6.87	1.2	
48	 10,380	75.00	10.9	Upper Marker
49	10,807	0.00	0.0	
50	12,386	0.00	0.0	
51	14,008	0.00	0.0	
52	14,733	0.00	0.0	
53	16,099	0.00	0.0	
54	17,251	0.00	0.0	
55	18,233	0.00	0.0	
56	20,154	0.00	0.0	
57	22,458	0.00	0.0	
58	23,226	0.00	0.0	

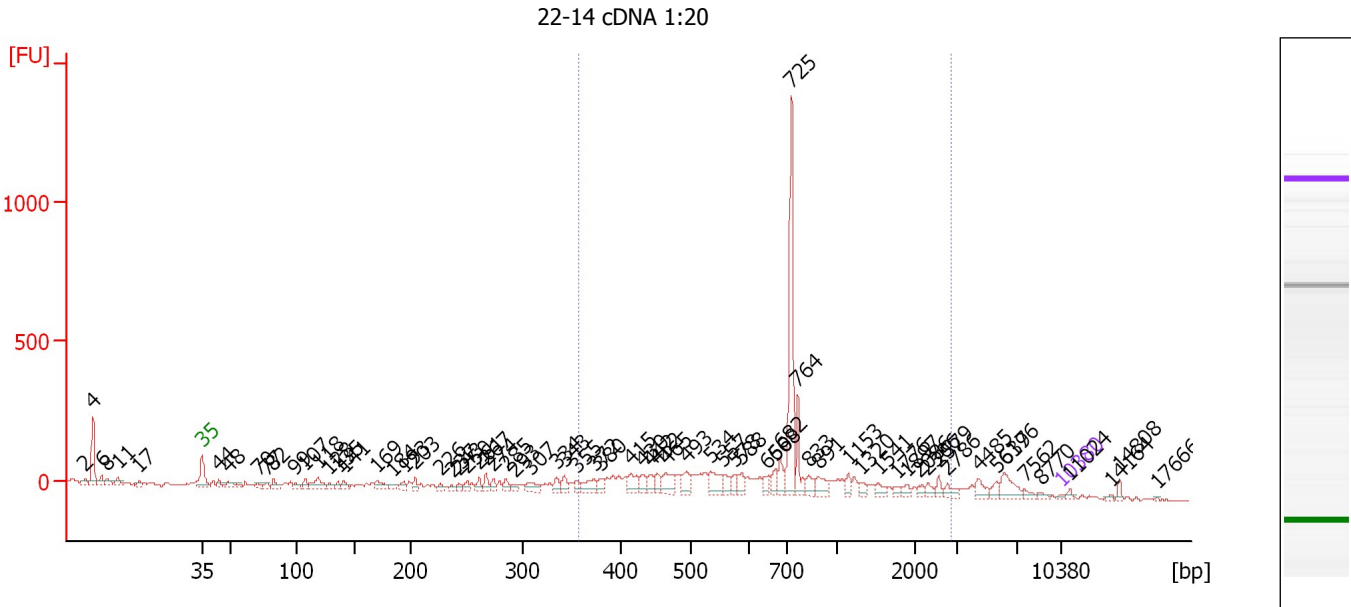
Region table for sample 7 : 15-0 cDNA 1:20

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
270	2,111	656	1,847.5	697.64	230.4	29	34.1	

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... Settings\Bioanalyzer\2013-10-24\2013-10-24_005_HL_cDNA.xad

Created: 10/24/2013 1:31:01 PM
 Modified: 10/26/2013 10:42:46 AM

Electropherogram Summary Continued ...



Setpoint Deviations for sample 8 : 22-14 cDNA 1:20

Height Threshold [FU] : 15

Overall Results for sample 8 : 22-14 cDNA 1:20

Number of peaks found: 71 Corr. Area 1: 2,455.5
 Noise: 8.1

Peak table for sample 8 : 22-14 cDNA 1:20


Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	2	0.00	0.0	
2	4	0.00	0.0	
3	6	0.00	0.0	
4	8	0.00	0.0	
5	11	0.00	0.0	
6	17	0.00	0.0	
7	35	125.00	5,411.3	Lower Marker
8	44	355.32	12,314.7	
9	48	746.42	23,319.3	
10	70	280.80	6,041.0	
11	77	241.24	4,737.6	
12	82	489.65	9,058.9	
13	99	345.84	5,319.6	
14	107	408.57	5,807.0	
15	118	1,041.39	13,347.7	
16	128	282.36	3,343.2	
17	135	338.88	3,792.2	
18	141	397.72	4,274.8	
19	169	657.81	5,881.0	
20	184	340.02	2,807.0	
21	193	403.36	3,160.4	
22	203	382.09	2,848.2	

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... Settings\Bioanalyzer\2013-10-24\2013-10-24_005_HL_cDNA.xad

Created: 10/24/2013 1:31:01 PM
 Modified: 10/26/2013 10:42:46 AM

Electropherogram Summary Continued ...

... Peak table for sample 8 : 22-14 cDNA 1:20

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
23	226	256.62	1,719.8	
24	237	193.58	1,240.0	
25	243	244.15	1,524.1	
26	250	356.57	2,162.4	
27	261	374.65	2,176.8	
28	267	482.31	2,732.6	
29	274	371.84	2,059.2	
30	285	403.86	2,147.0	
31	293	306.04	1,582.1	
32	307	662.83	3,268.6	
33	334	413.12	1,873.1	
34	343	513.66	2,270.4	
35	355	330.36	1,409.3	
36	372	842.72	3,428.6	
37	380	397.91	1,586.8	
38	415	822.30	3,001.1	
39	430	523.24	1,841.6	
40	442	525.96	1,803.0	
41	452	540.14	1,810.8	
42	465	999.45	3,256.6	
43	493	780.45	2,396.7	
44	534	1,034.76	2,933.9	
45	557	524.00	1,424.4	
46	578	509.52	1,336.5	
47	588	490.52	1,264.5	
48	650	418.16	975.4	
49	668	524.36	1,188.5	
50	682	785.76	1,745.8	
51	725	5,605.49	11,716.4	
52	764	1,194.85	2,369.4	
53	833	523.60	952.8	
54	891	664.81	1,130.0	
55	1,153	373.50	491.0	
56	1,320	312.34	358.5	
57	1,541	368.07	361.8	
58	1,776	193.04	164.7	
59	1,897	271.22	216.7	
60	2,086	206.67	150.1	
61	2,306	271.61	178.4	
62	2,579	275.76	162.0	
63	2,786	376.53	204.7	
64	4,485	466.40	157.6	
65	5,637	291.34	78.3	
66	6,196	860.02	210.3	
67	7,562	215.44	43.2	
68	8,770	136.51	23.6	
69	 10,380	75.00	10.9	Upper Marker
70	11,024	0.00	0.0	
71	14,164	0.00	0.0	
72	14,808	0.00	0.0	
73	17,666	0.00	0.0	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... Settings\Bioanalyzer\2013-10-24\2013-10-24_005_HL_cDNA.xad

Created: 10/24/2013 1:31:01 PM
Modified: 10/26/2013 10:42:46 AM

Electropherogram Summary Continued ...

... Region table for sample 8 : 22-14 cDNA 1:20

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
357	2,877	821	56,249.7	23,231.26	2,455.5	68	61.1	■

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... Settings\Bioanalyzer\2013-10-24\2013-10-24_005_HL_cDNA.xad

Created: 10/24/2013 1:31:01 PM
Modified: 10/26/2013 10:42:46 AM

Gel Image

