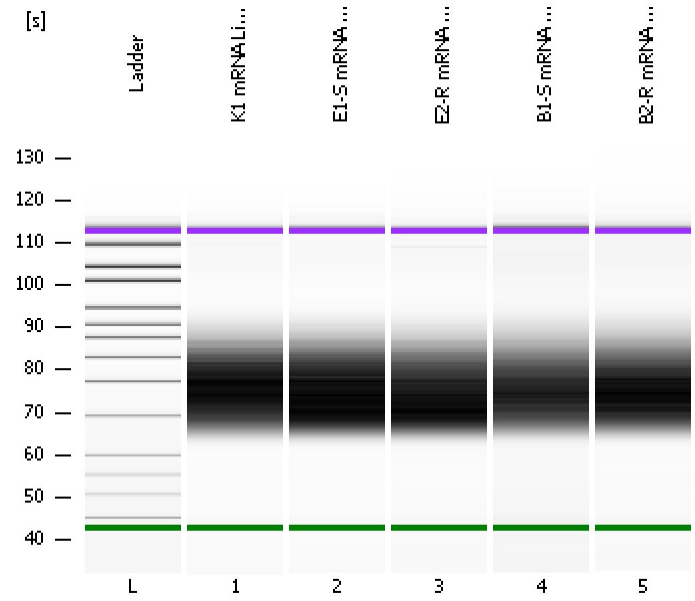
Assay Class: High Sensitivity DNA Assay
Data Path: C:\...gs\Bioanalyzer\2013-03-26\2013-03-26_002_K-E-B_mRNA_Lib.xad

Created: 3/26/2013 4:44:28 PM
Modified: 3/26/2013 5:29:51 PM

Electrophoresis File Run Summary



Instrument Information:

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

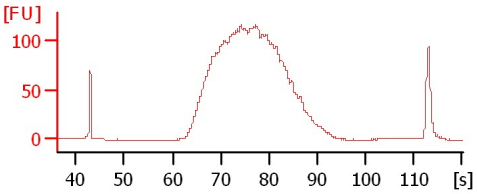
Assay Information:

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

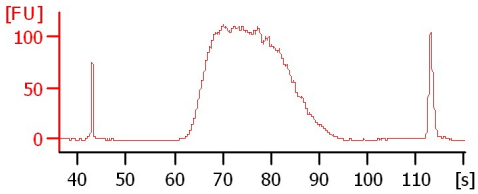
Chip Information:

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

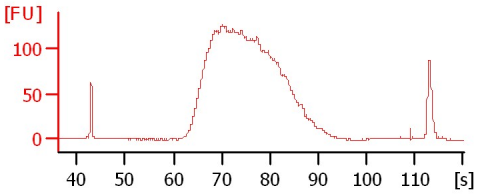
K1 mRNA Lib 1:2



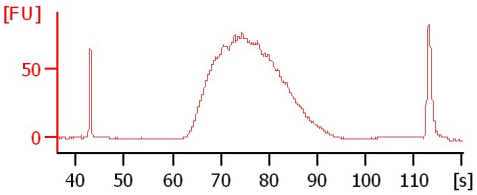
E1-S mRNA Lib 1:2



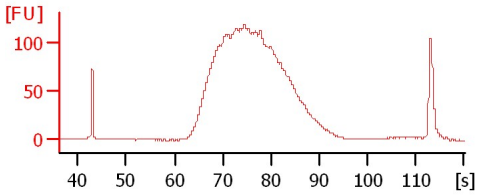
E2-R mRNA Lib 1:2



B1-S mRNA Lib 1:5



B2-R mRNA Lib 1:4



Assay Class: High Sensitivity DNA Assay
Data Path: C:\...gs\Bioanalyzer\2013-03-26\2013-03-26_002_K-E-B_mRNA_Lib.xad

Created: 3/26/2013 4:44:28 PM
Modified: 3/26/2013 5:29:51 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
K1 mRNA Lib 1:2		☐	✔			
E1-S mRNA Lib 1:2		☐	✔			
E2-R mRNA Lib 1:2		☐	✔			
B1-S mRNA Lib 1:5		☐	✔			
B2-R mRNA Lib 1:4		☐	✔			
Ladder		☐	✔			

Chip Lot # **Reagent Kit Lot #**

Chip Comments :

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...gs\Bioanalyzer\2013-03-26\2013-03-26_002_K-E-B_mRNA_Lib.xad

Created: 3/26/2013 4:44:28 PM
Modified: 3/26/2013 5:29:51 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

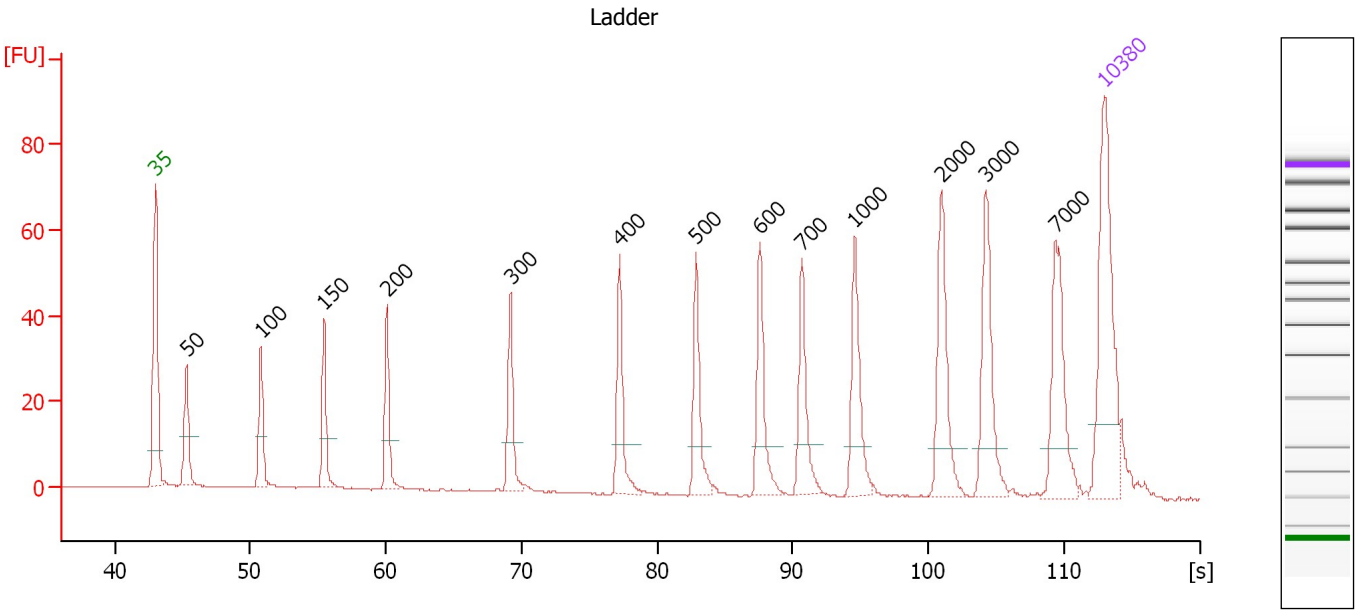
Ladder

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:\...gs\Bioanalyzer\2013-03-26\2013-03-26_002_K-E-B_mRNA_Lib.xad

Created: 3/26/2013 4:44:28 PM
Modified: 3/26/2013 5:29:51 PM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.2

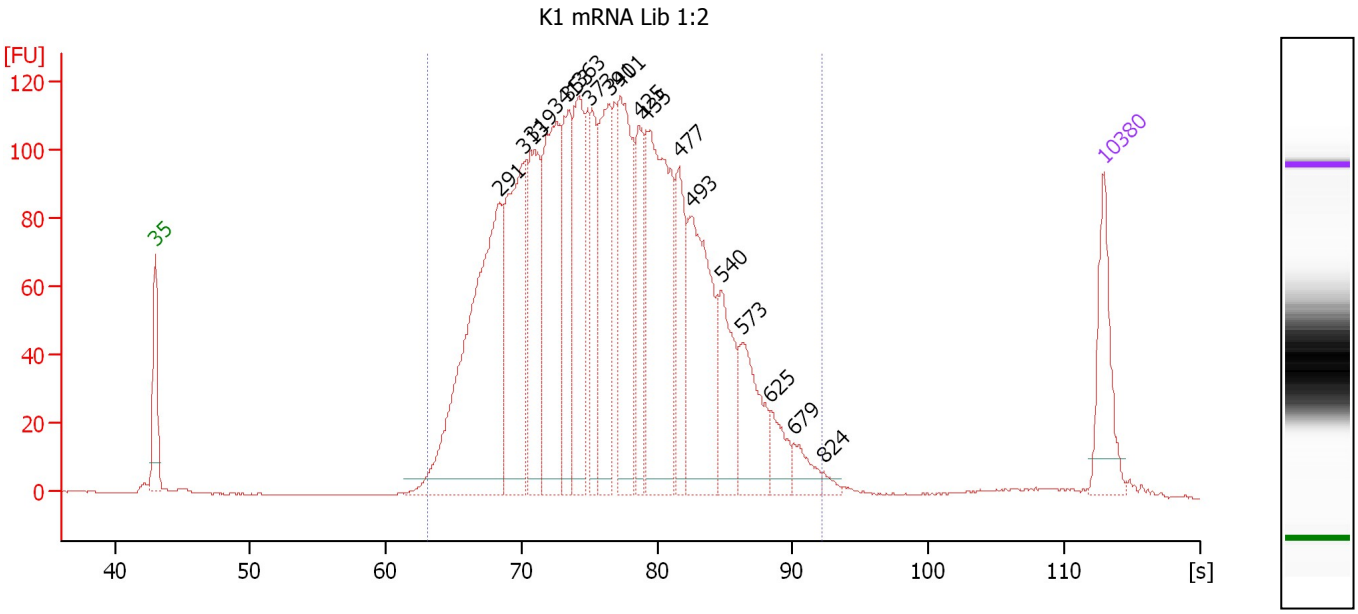
Peak table for Ladder

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:\...gs\Bioanalyzer\2013-03-26\2013-03-26_002_K-E-B_mRNA_Lib.xad

Created: 3/26/2013 4:44:28 PM
Modified: 3/26/2013 5:29:51 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : K1 mRNA Lib 1:2

Number of peaks found:	18	Corr. Area 1:	2,856.1
Noise:	0.2		

Peak table for sample 1 : K1 mRNA Lib 1:2

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	291	529.41	2,761.2	
3	313	301.75	1,461.9	
4	319	199.76	949.4	
5	341	276.92	1,229.5	
6	353	161.91	695.4	
7	363	180.37	753.6	
8	373	122.33	496.8	
9	391	189.91	736.7	
10	401	222.75	840.7	
11	425	100.96	359.5	
12	435	334.96	1,167.2	
13	477	110.53	350.7	
14	493	236.18	725.9	
15	540	108.28	303.7	
16	573	104.55	276.5	
17	625	38.78	93.9	
18	679	30.60	68.2	
19	824	7.32	13.5	
20	10,380	75.00	10.9	Upper Marker

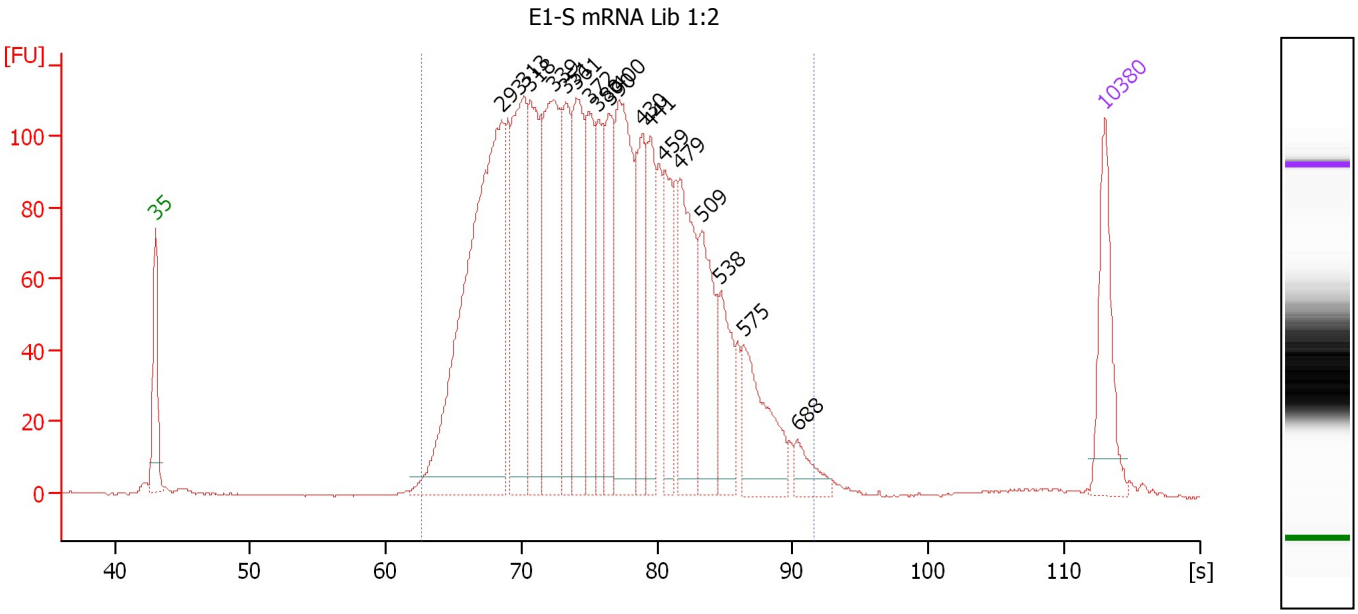
Region table for sample 1 : K1 mRNA Lib 1:2

From [s]	To [s]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/µl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
63.16	92.21	402	14,026.9	3,430.58	2,856.1	98	24.5	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...gs\Bioanalyzer\2013-03-26\2013-03-26_002_K-E-B_mRNA_Lib.xad

Created: 3/26/2013 4:44:28 PM
Modified: 3/26/2013 5:29:51 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : E1-S mRNA Lib 1:2

Number of peaks found:	18	Corr. Area 1:	2,926.5
Noise:	0.3		

Peak table for sample 2 : E1-S mRNA Lib 1:2

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	293	616.04	3,186.8	
3	313	246.78	1,196.3	
4	318	170.07	809.9	
5	339	263.38	1,175.8	
6	351	112.94	488.1	
7	361	162.32	682.0	
8	372	118.80	484.1	
9	380	87.86	350.2	
10	390	113.60	441.1	
11	400	219.36	830.0	
12	430	106.91	377.0	
13	441	93.32	320.8	
14	459	94.74	312.8	
15	479	158.09	500.4	
16	509	119.14	354.9	
17	538	75.44	212.4	
18	575	107.50	283.1	
19	688	29.45	64.8	
20	10,380	75.00	10.9	Upper Marker

Region table for sample 2 : E1-S mRNA 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
62.69	91.64	393	13,089.3	3,120.48	2,926.5	98	25.0	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...gs\Bioanalyzer\2013-03-26\2013-03-26_002_K-E-B_mRNA_Lib.xad

Created: 3/26/2013 4:44:28 PM
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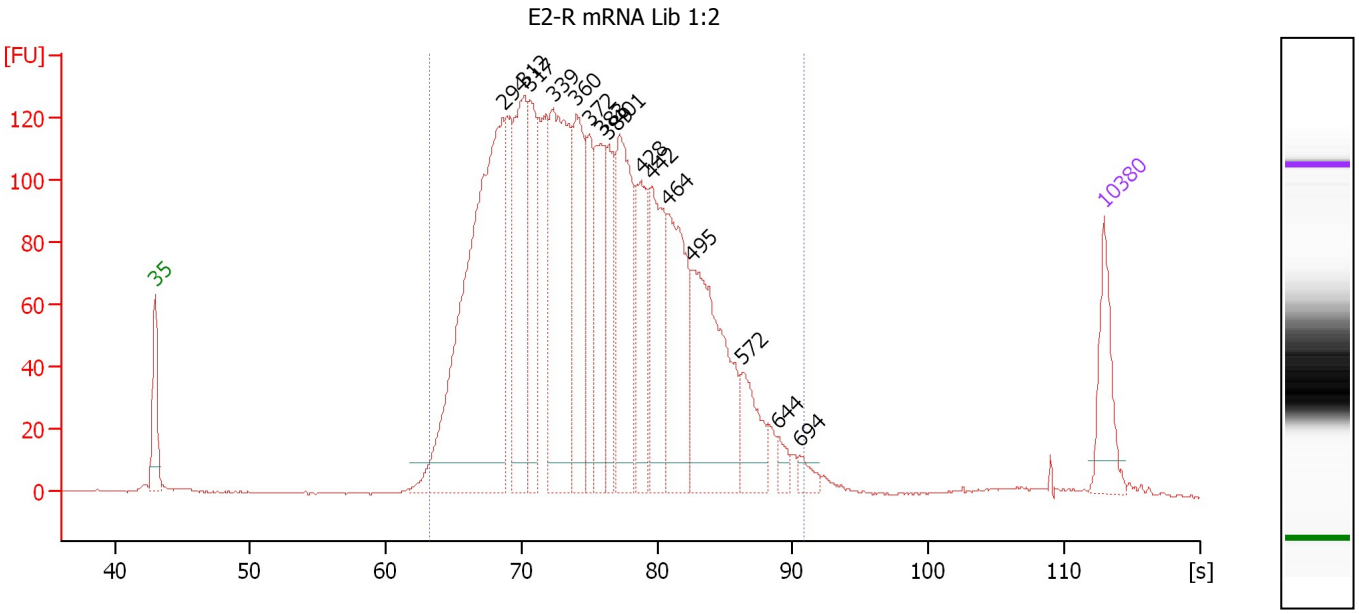
Electropherogram Summary Continued ...



Setpoint Deviations for sample 3 : E2-R mRNA Lib 1:2

Height Threshold [FU] : 10

Overall Results for sample 3 : E2-R mRNA Lib 1:2

Number of peaks found:	16	Corr. Area 1:	3,098.7
Noise:	0.3		

Peak table for sample 3 : E2-R mRNA Lib 1:2

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	294	917.78	4,728.4	
3	312	303.14	1,472.3	
4	317	202.87	969.4	
5	339	439.93	1,968.5	
6	360	216.15	909.3	
7	372	124.90	508.6	
8	383	175.11	692.0	
9	389	117.13	456.1	
10	401	267.13	1,010.3	
11	428	146.21	517.7	
12	442	201.62	691.8	
13	464	250.85	819.1	
14	495	331.16	1,013.0	
15	572	87.97	233.2	
16	644	21.56	50.7	
17	694	19.93	43.5	
18	10,380	75.00	10.9	Upper Marker

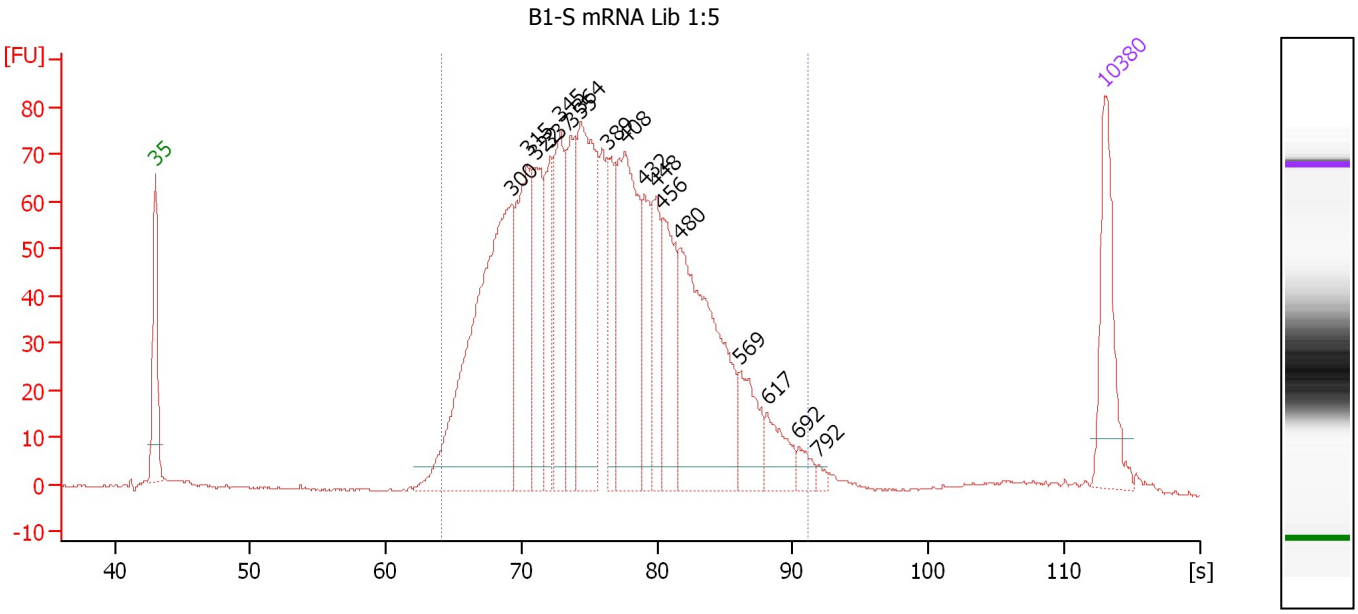
Region table for sample 3 : E2-R mRNA Lib 1:2

From [s]	To [s]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/µl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
63.26	90.80	385	17,988.7	4,226.77	3,098.7	97	24.4	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...gs\Bioanalyzer\2013-03-26\2013-03-26_002_K-E-B_mRNA_Lib.xad

Created: 3/26/2013 4:44:28 PM
Modified: 3/26/2013 5:29:51 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : B1-S mRNA Lib 1:5

Number of peaks found:	17	Corr. Area 1:	1,755.9
Noise:	0.3		

Peak table for sample 4 : B1-S mRNA Lib 1:5

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	300	444.89	2,244.4	
3	315	163.58	787.4	
4	322	131.20	616.8	
5	337	79.79	359.0	
6	345	121.16	531.5	
7	355	100.76	429.8	
8	364	224.48	934.7	
9	389	71.65	278.9	
10	408	211.46	785.8	
11	432	78.42	274.9	
12	448	67.35	227.9	
13	456	104.07	345.8	
14	480	256.68	810.8	
15	569	57.85	154.0	
16	617	37.49	92.0	
17	692	14.21	31.1	
18	792	4.88	9.3	
19	10,380	75.00	10.9	Upper Marker

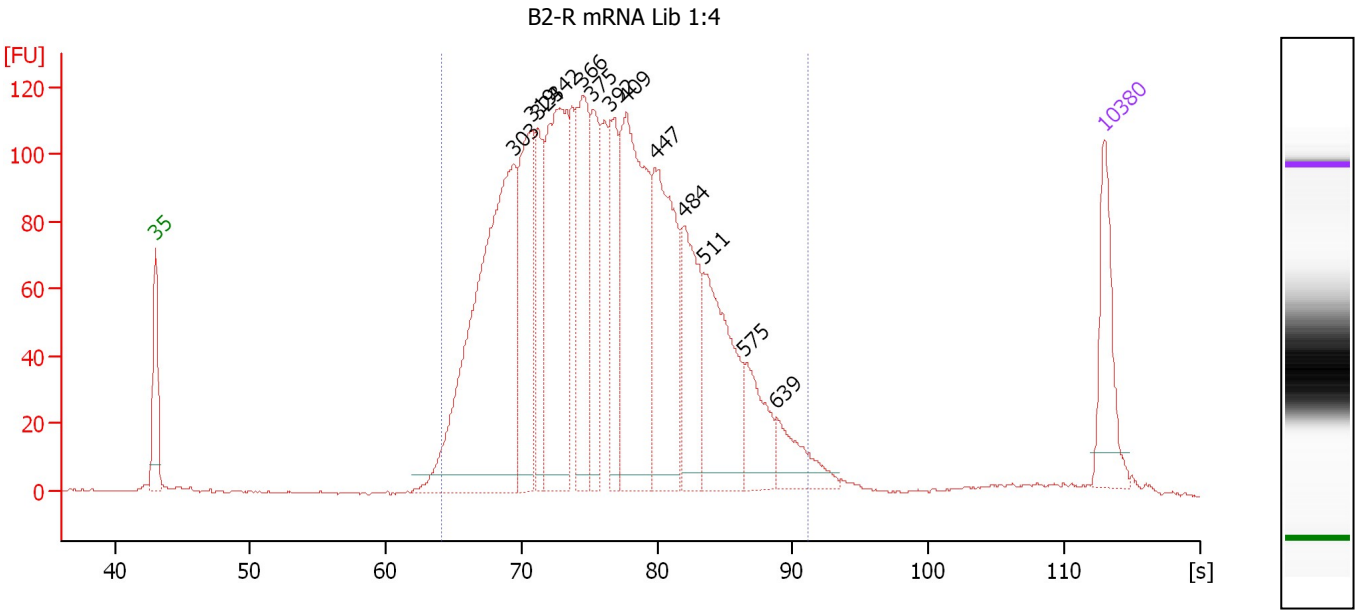
Region table for sample 4 : B1-S mRNA Lib 1:5

From [s]	To [s]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/µl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
64.15	91.17	397	9,346.3	2,269.81	1,755.9	95	23.9	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...gs\Bioanalyzer\2013-03-26\2013-03-26_002_K-E-B_mRNA_Lib.xad

Created: 3/26/2013 4:44:28 PM
Modified: 3/26/2013 5:29:51 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : B2-R mRNA Lib 1:4

Number of peaks found:	13	Corr. Area 1:	2,764.2
Noise:	0.3		

Peak table for sample 5 : B2-R mRNA Lib 1:4

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	303	614.53	3,071.8	
3	319	204.20	968.4	
4	324	116.20	543.1	
5	342	316.67	1,404.2	
6	366	179.88	745.3	
7	375	124.10	501.4	
8	392	116.66	450.9	
9	409	338.31	1,252.3	
10	447	244.75	830.4	
11	484	149.72	468.9	
12	511	195.31	578.7	
13	575	79.07	208.3	
14	639	58.01	137.5	
15	10,380	75.00	10.9	Upper Marker

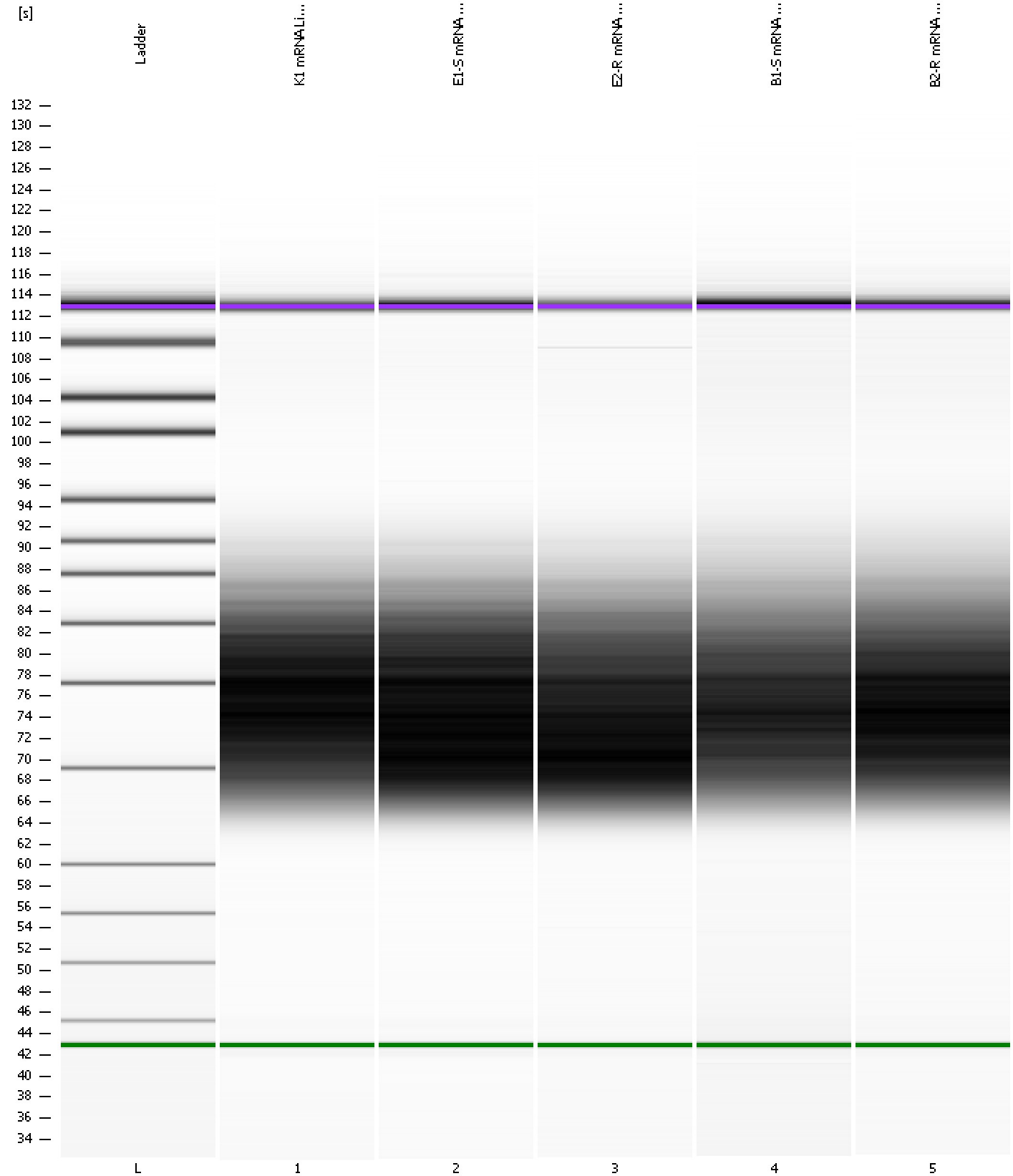
Region table for sample 5 : B2-R mRNA Lib 1:4

From [s]	To [s]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/µl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
64.10	91.09	398	12,358.3	3,008.79	2,764.2	95	23.9	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...gs\Bioanalyzer\2013-03-26\2013-03-26_002_K-E-B_mRNA_Lib.xad

Created: 3/26/2013 4:44:28 PM
Modified: 3/26/2013 5:29:51 PM

Gel Image



Assay Class: High Sensitivity DNA Assay
Data Path: C:\...gs\Bioanalyzer\2013-03-26\2013-03-26_002_K-E-B_mRNA_Lib.xad

Created: 3/26/2013 4:44:28 PM
Modified: 3/26/2013 5:29:51 PM

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		3/26/2013 5:22:55 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2013-03-26\2013-03-26_002.xad)		Instrument	Run		3/26/2013 4:44:33 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		3/26/2013 4:44:33 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		3/26/2013 4:44:33 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		3/26/2013 4:44:33 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		3/26/2013 4:44:33 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		3/26/2013 4:44:33 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		3/26/2013 4:44:33 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1