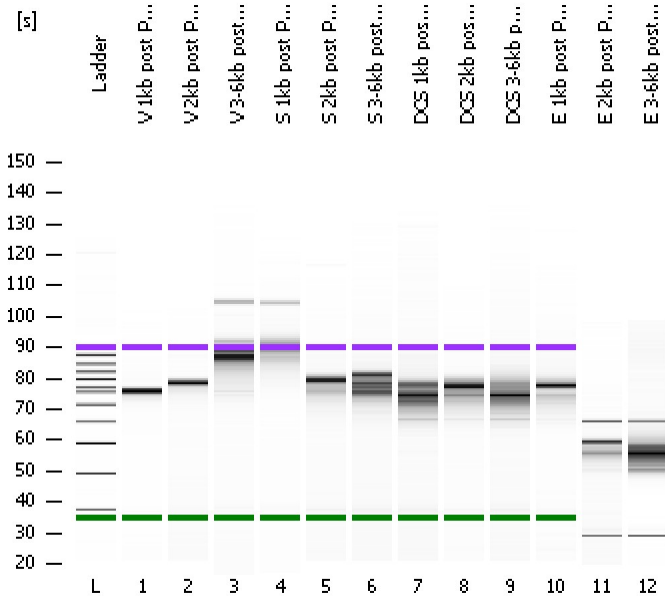


Assay Class: DNA 12000
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-08-18\2014-08-18_002.xad

Created: 8/18/2014 10:29:15 AM
Modified: 8/18/2014 11:12:52 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\DNA 12000 Series II.xsy

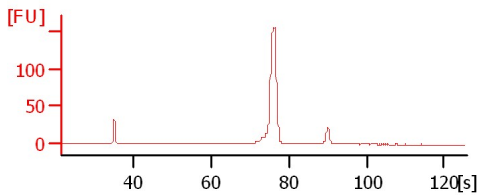
Assay Class: DNA 12000
Version: 2.4
Assay Comments: DNA Analysis 100 -12000 bp

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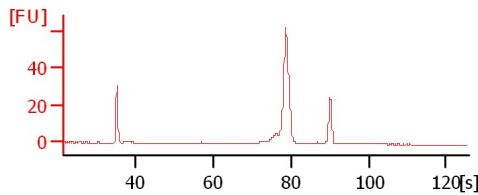
Chip Information:

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

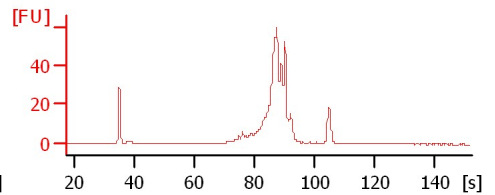
V 1kb post PCR cDNA



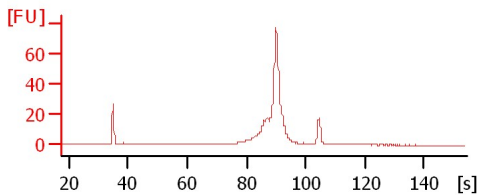
V 2kb post PCR cDNA



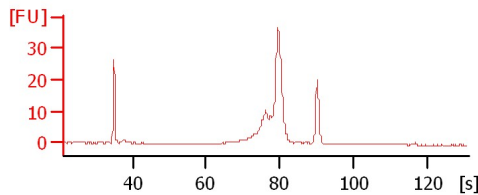
V 3-6kb post PCR cDNA



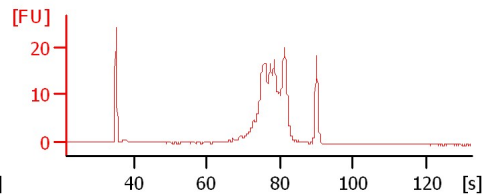
S 1kb post PCR cDNA



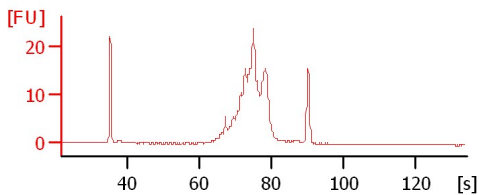
S 2kb post PCR cDNA



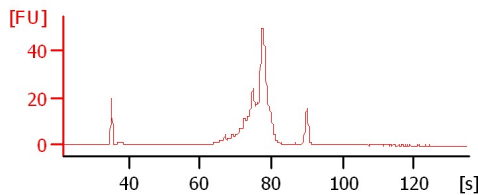
S 3-6kb post PCR cDNA



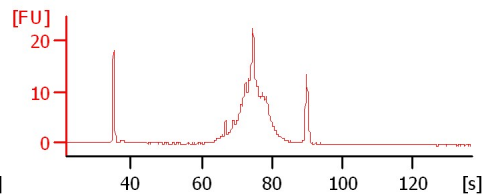
DCS 1kb post PCR cDNA



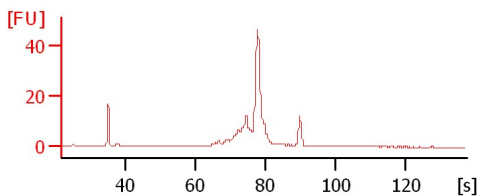
DCS 2kb post PCR cDNA



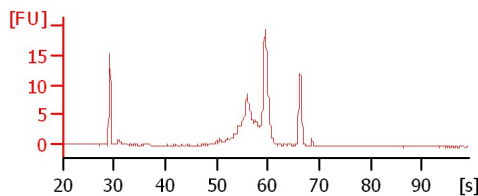
DCS 3-6kb post PCR cDNA



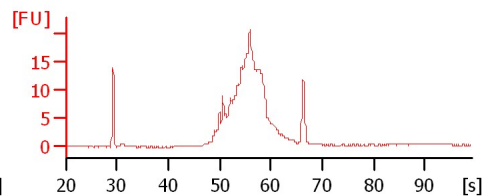
E 1kb post PCR cDNA



E 2kb post PCR cDNA



E 3-6kb post PCR cDNA



Assay Class: DNA 12000
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-08-18\2014-08-18_002.xad

Created: 8/18/2014 10:29:15 AM
 Modified: 8/18/2014 11:12:52 AM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
V 1kb post PCR cDNA		<input type="checkbox"/>	✓			
V 2kb post PCR cDNA		<input type="checkbox"/>	✓			
V 3-6kb post PCR cDNA		<input type="checkbox"/>	✓			
S 1kb post PCR cDNA		<input type="checkbox"/>	✓			
S 2kb post PCR cDNA		<input type="checkbox"/>	✓			
S 3-6kb post PCR cDNA		<input type="checkbox"/>	✓			
DCS 1kb post PCR cDNA		<input type="checkbox"/>	✓			
DCS 2kb post PCR cDNA		<input type="checkbox"/>	✓			
DCS 3-6kb post PCR cDNA		<input type="checkbox"/>	✓			
E 1kb post PCR cDNA		<input type="checkbox"/>	✓			
E 2kb post PCR cDNA		<input type="checkbox"/>	✓			
E 3-6kb post PCR cDNA		<input type="checkbox"/>	✓			
Ladder		<input type="checkbox"/>	✓			

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: DNA 12000
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-08-18\2014-08-18_002.xad

Created: 8/18/2014 10:29:15 AM
Modified: 8/18/2014 11:12:52 AM

Electrophoresis Assay Details

General Analysis Settings

Number of Available Sample and Ladder Wells (Max.) : 13
Minimum Visible Range [s] : 20
Maximum Visible Range [s] : 99
Start Analysis Time Range [s] : 20
End Analysis Time Range [s] : 98.95
Ladder Concentration [ng/μl] : 44
Uses Standard Area for Ladder Fragments
Lower Marker Concentration [ng/μl] : 8.3
Upper Marker Concentration [ng/μl] : 4.2
Used Upper Marker for Quantitation
This is a Qualitative Assay Only
Standard Curve Fit is Point to Point
Show Data Aligned to Lower and Upper Marker

Integrator Settings

Integration Start Time [s] : 20
Integration End Time [s] : 98.95
Slope Threshold : 0.8
Height Threshold [FU] : 20
Area Threshold : 0.1
Width Threshold [s] : 0.5
Baseline Plateau [s] : 0.5

Filter Settings

Filter Width [s] : 0.5
Polynomial Order : 4

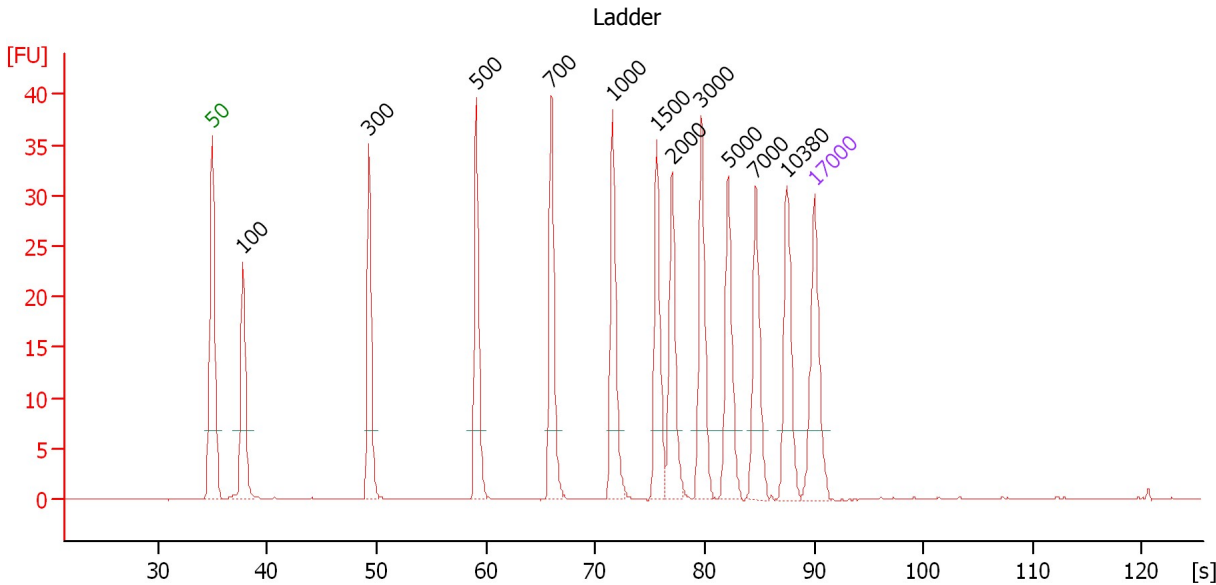
Ladder

Ladder Peak	Size	Area
1	50	120
2	100	48
3	300	61
4	500	77
5	700	81
6	1000	86
7	1500	92
8	2000	92
9	3000	96
10	5000	100
11	7000	98
12	10380	102
13	17000	110

Assay Class: DNA 12000
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-08-18\2014-08-18_002.xad

Created: 8/18/2014 10:29:15 AM
 Modified: 8/18/2014 11:12:52 AM

Electropherogram Summary



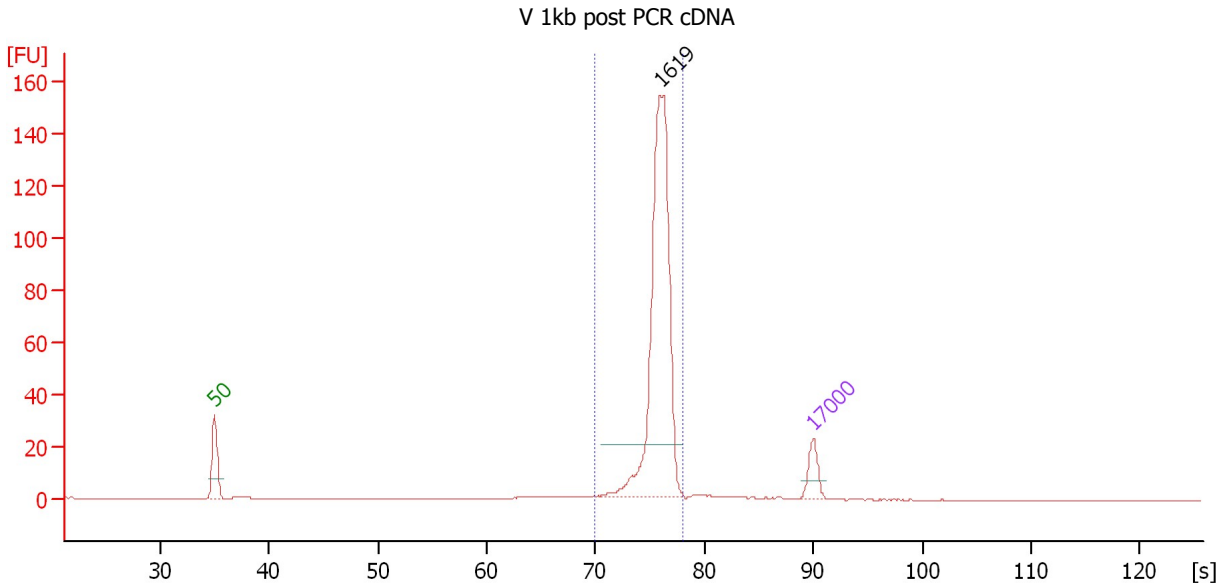
Peak table for Ladder

Peak	Size [bp]	Conc. [ng/μl]	Molarity [nmol/l]	Observations
1	50	8.30	251.5	Lower Marker
2	100	4.00	60.6	Ladder Peak
3	300	4.00	20.2	Ladder Peak
4	500	4.00	12.1	Ladder Peak
5	700	4.00	8.7	Ladder Peak
6	1,000	4.00	6.1	Ladder Peak
7	1,500	4.00	4.0	Ladder Peak
8	2,000	4.00	3.0	Ladder Peak
9	3,000	4.00	2.0	Ladder Peak
10	5,000	4.00	1.2	Ladder Peak
11	7,000	4.00	0.9	Ladder Peak
12	10,380	4.00	0.6	Ladder Peak
13	17,000	4.20	0.4	Upper Marker

Assay Class: DNA 12000
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-08-18\2014-08-18_002.xad

Created: 8/18/2014 10:29:15 AM
 Modified: 8/18/2014 11:12:52 AM

Electropherogram Summary Continued ...



Overall Results for sample 1 : V 1kb post PCR cDNA

Number of peaks found: 1 Area 1: 229.6

Peak table for sample 1 : V 1kb post PCR cDNA

Peak	Size [bp]	Conc. [ng/μl]	Molarity [nmol/l]	Observations
1	50	8.30	251.5	Lower Marker
2	1,619	59.97	56.1	
3	17,000	4.20	0.4	Upper Marker

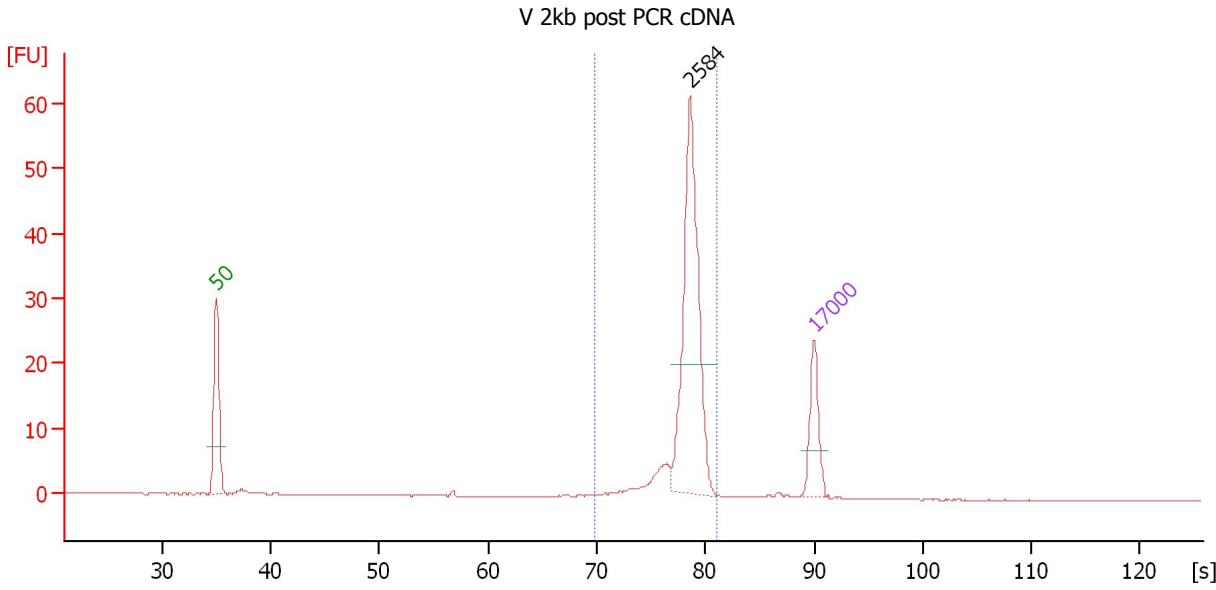
Region table for sample 1 : V 1kb post PCR cDNA

From [bp]	To [bp]	Average Size [bp]	Conc. [ng/μl]	Col Area or	% of Total	Size distribution in CV [%]
910	2,365	1,619	62.47	229.6	93	14.0

Assay Class: DNA 12000
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-08-18\2014-08-18_002.xad

Created: 8/18/2014 10:29:15 AM
 Modified: 8/18/2014 11:12:52 AM

Electropherogram Summary Continued ...



Overall Results for sample 2 : V 2kb post PCR cDNA

Number of peaks found: 1 Area 1: 84.0

Peak table for sample 2 : V 2kb post PCR cDNA

Peak	Size [bp]	Conc. [ng/μl]	Molarity [nmol/l]	Observations
1	50	8.30	251.5	Lower Marker
2	2,584	20.11	11.8	
3	17,000	4.20	0.4	Upper Marker

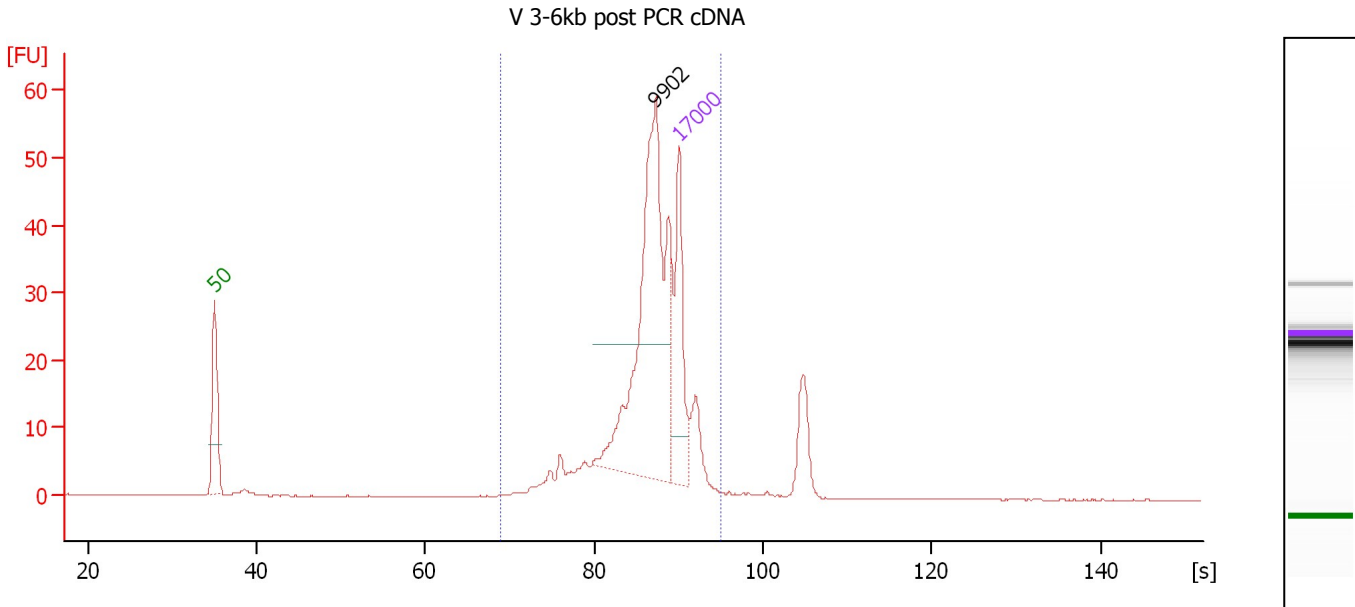
Region table for sample 2 : V 2kb post PCR cDNA

From [bp]	To [bp]	Average Size [bp]	Conc. [ng/μl]	Col Area or	% of Total	Size distribution in CV [%]
902	4,111	2,497	23.32	84.0	95	18.6

Assay Class: DNA 12000
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-08-18\2014-08-18_002.xad

Created: 8/18/2014 10:29:15 AM
 Modified: 8/18/2014 11:12:52 AM

Electropherogram Summary Continued ...



Overall Results for sample 3 : V 3-6kb post PCR cDNA

Number of peaks found: 1 Area 1: 160.5

Peak table for sample 3 : V 3-6kb post PCR cDNA

Peak	Size [bp]	Conc. [ng/μl]	Molarity [nmol/l]	Observations
1	50	8.30	251.5	Lower Marker
2	9,902	13.20	2.0	
3	17,000	4.20	0.4	Upper Marker

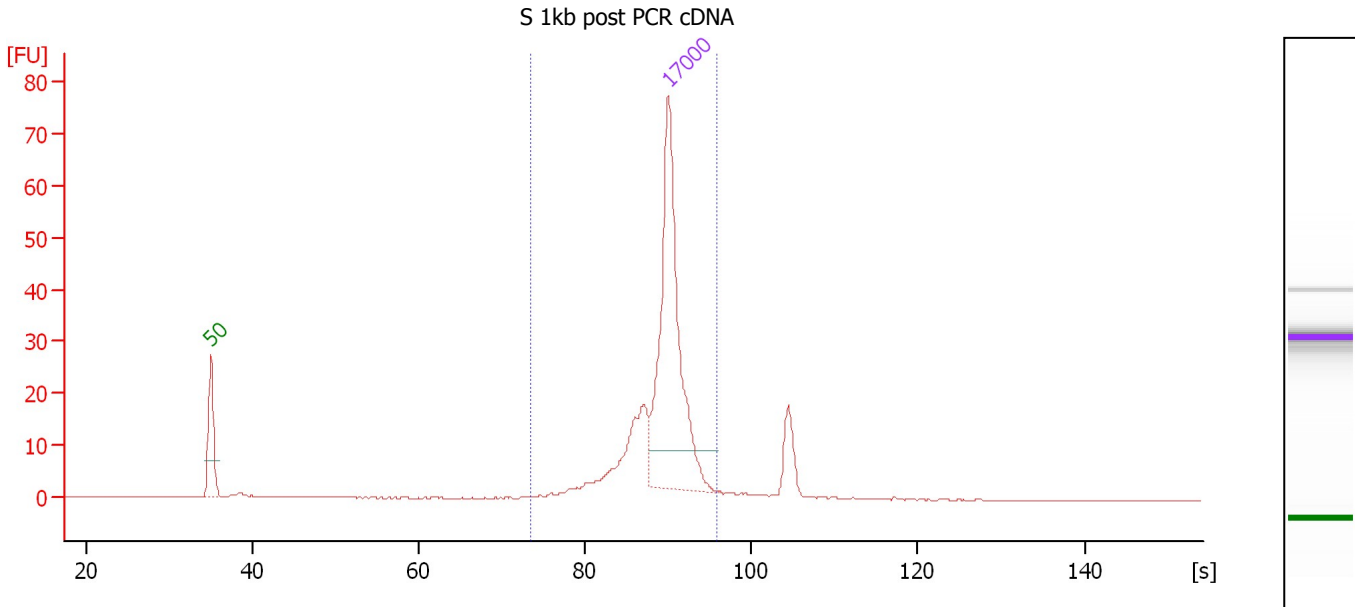
Region table for sample 3 : V 3-6kb post PCR cDNA

From [bp]	To [bp]	Average Size [bp]	Conc. [ng/μl]	Col Area or	% of Total	Size distribution in CV [%]
859	30,294	11,109	18.89	160.5	89	50.2

Assay Class: DNA 12000
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-08-18\2014-08-18_002.xad

Created: 8/18/2014 10:29:15 AM
 Modified: 8/18/2014 11:12:52 AM

Electropherogram Summary Continued ...



Overall Results for sample 4 : S 1kb post PCR cDNA

Number of peaks found: 0 Area 1: 42.2

Peak table for sample 4 : S 1kb post PCR cDNA

Peak	Size [bp]	Conc. [ng/μl]	Molarity [nmol/l]	Observations
1	50	8.30	251.5	Lower Marker
2	17,000	4.20	0.4	Upper Marker

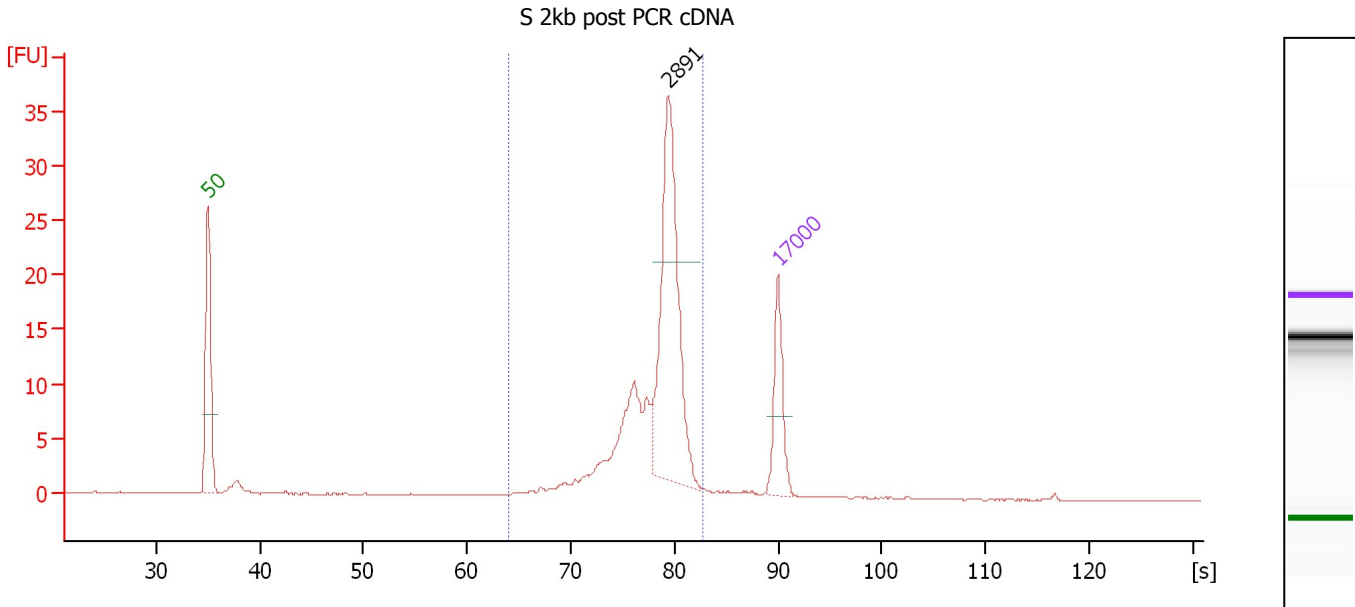
Region table for sample 4 : S 1kb post PCR cDNA

From [bp]	To [bp]	Average Size [bp]	Conc. [ng/μl]	Col Area or	% of Total	Size distribution in CV [%]
1,227	32,430	15,154	1.74	42.2	64	39.5

Assay Class: DNA 12000
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-08-18\2014-08-18_002.xad

Created: 8/18/2014 10:29:15 AM
 Modified: 8/18/2014 11:12:52 AM

Electropherogram Summary Continued ...



Overall Results for sample 5 : S 2kb post PCR cDNA

Number of peaks found: 1 Area 1: 83.6

Peak table for sample 5 : S 2kb post PCR cDNA

Peak	Size [bp]	Conc. [ng/μl]	Molarity [nmol/l]	Observations
1	50	8.30	251.5	Lower Marker
2	2,891	16.27	8.5	
3	17,000	4.20	0.4	Upper Marker

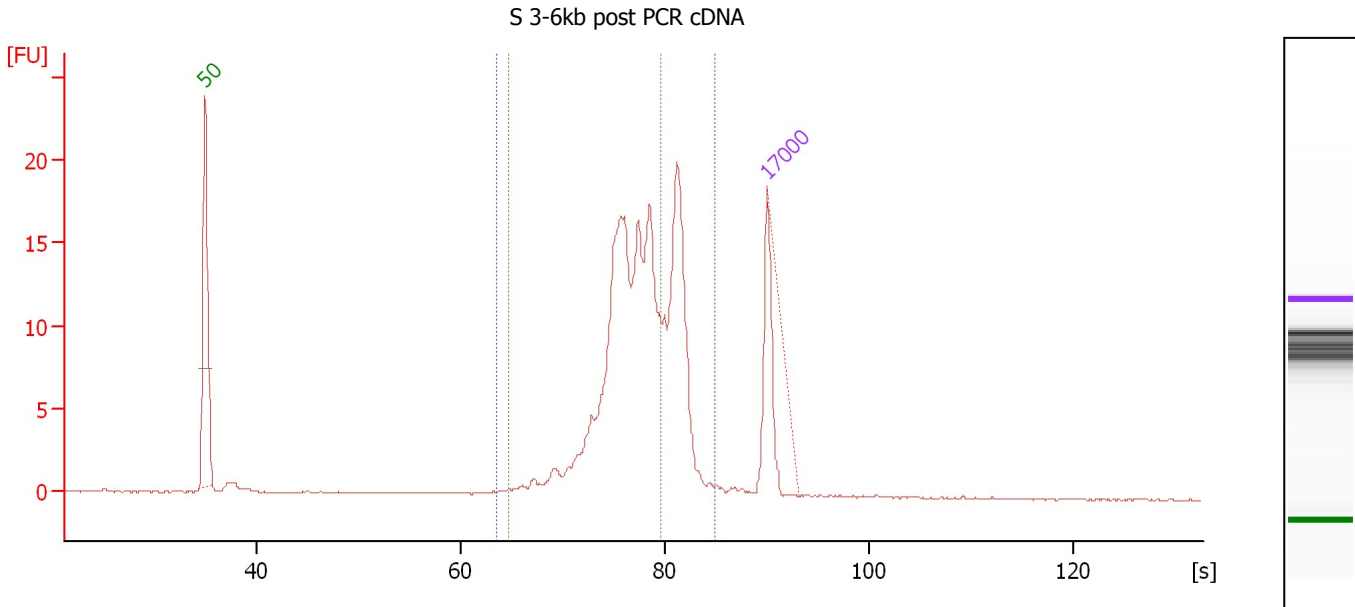
Region table for sample 5 : S 2kb post PCR cDNA

From [bp]	To [bp]	Average Size [bp]	Conc. [ng/μl]	Col Area or	% of Total	Size distribution in CV [%]
644	5,491	2,515	29.23	83.6	93	36.4

Assay Class: DNA 12000
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-08-18\2014-08-18_002.xad

Created: 8/18/2014 10:29:15 AM
 Modified: 8/18/2014 11:12:52 AM

Electropherogram Summary Continued ...



Overall Results for sample 6 : S 3-6kb post PCR cDNA

Number of peaks found: 0 Area 2: 67.5
 Area 1: 97.3

Peak table for sample 6 : S 3-6kb post PCR cDNA

Peak	Size [bp]	Conc. [ng/μl]	Molarity [nmol/l]	Observations
1	50	8.30	251.5	Lower Marker
2	17,000	4.20	0.4	Upper Marker

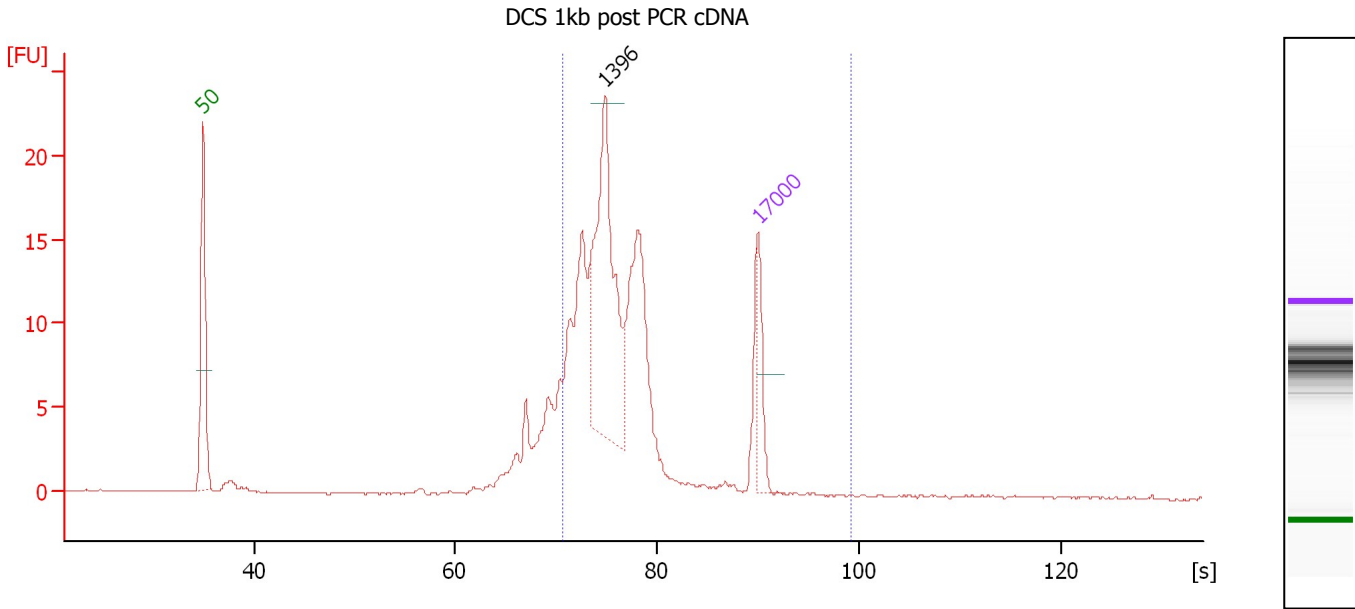
Region table for sample 6 : S 3-6kb post PCR cDNA

From [bp]	To [bp]	Average Size [bp]	Conc. [ng/μl]	Col Area or	% of Total	Size distribution in CV [%]
630	7,275	2,542	0.00	97.3	93	50.5
664	2,976	1,819	0.00	67.5	64	32.0

Assay Class: DNA 12000
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-08-18\2014-08-18_002.xad

Created: 8/18/2014 10:29:15 AM
 Modified: 8/18/2014 11:12:52 AM

Electropherogram Summary Continued ...



Overall Results for sample 7 : DCS 1kb post PCR cDNA

Number of peaks found: 1 Area 1: 91.4

Peak table for sample 7 : DCS 1kb post PCR cDNA

Peak	Size [bp]	Conc. [ng/μl]	Molarity [nmol/l]	Observations
1	50	8.30	251.5	Lower Marker
2	1,396	19.81	21.5	
3	17,000	4.20	0.4	Upper Marker

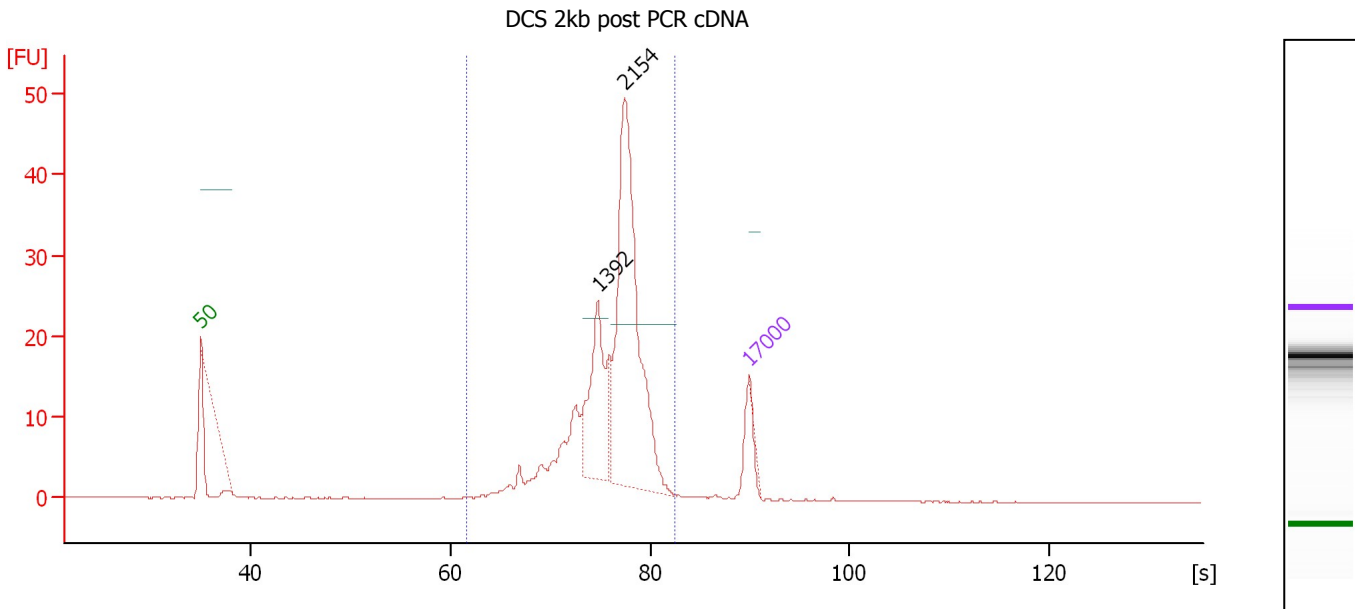
Region table for sample 7 : DCS 1kb post PCR cDNA

From [bp]	To [bp]	Average Size [bp]	Conc. [ng/μl]	Col Area or	% of Total	Size distribution in CV [%]
950	41,318	3,588	61.70	91.4	84	100.0

Assay Class: DNA 12000
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-08-18\2014-08-18_002.xad

Created: 8/18/2014 10:29:15 AM
 Modified: 8/18/2014 11:12:52 AM

Electropherogram Summary Continued ...



Overall Results for sample 8 : DCS 2kb post PCR cDNA

Number of peaks found: 2 Area 1: 145.2

Peak table for sample 8 : DCS 2kb post PCR cDNA

Peak	Size [bp]	Conc. [ng/μl]	Molarity [nmol/l]	Observations
1	50	8.30	251.5	Lower Marker
2	1,392	482.56	525.4	
3	2,154	1,387.73	976.0	
4	17,000	4.20	0.4	Upper Marker

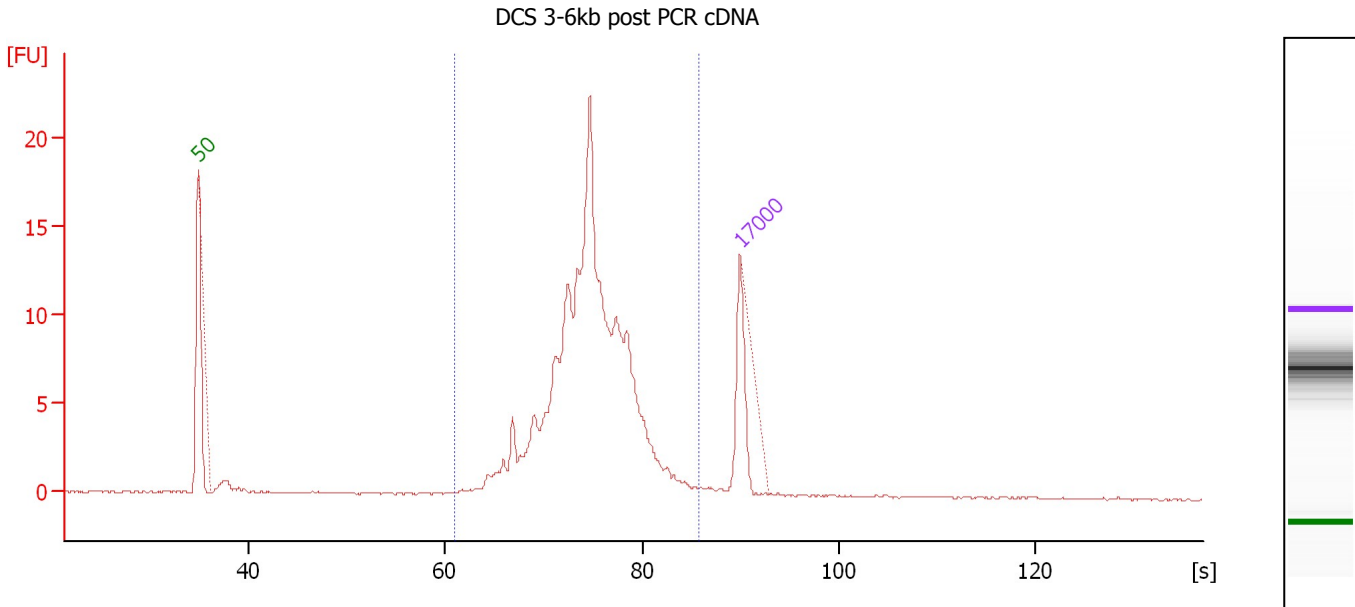
Region table for sample 8 : DCS 2kb post PCR cDNA

From [bp]	To [bp]	Average Size [bp]	Conc. [ng/μl]	Col Area or	% of Total	Size distribution in CV [%]
576	5,301	1,901	2,609.63	145.2	94	39.2

Assay Class: DNA 12000
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-08-18\2014-08-18_002.xad

Created: 8/18/2014 10:29:15 AM
 Modified: 8/18/2014 11:12:52 AM

Electropherogram Summary Continued ...



Overall Results for sample 9 : DCS 3-6kb post PCR cDNA

Number of peaks found: 0 Area 1: 85.3

Peak table for sample 9 : DCS 3-6kb post PCR cDNA

Peak	Size [bp]	Conc. [ng/μl]	Molarity [nmol/l]	Observations
1	50	8.30	251.5	Lower Marker
2	17,000	4.20	0.4	Upper Marker

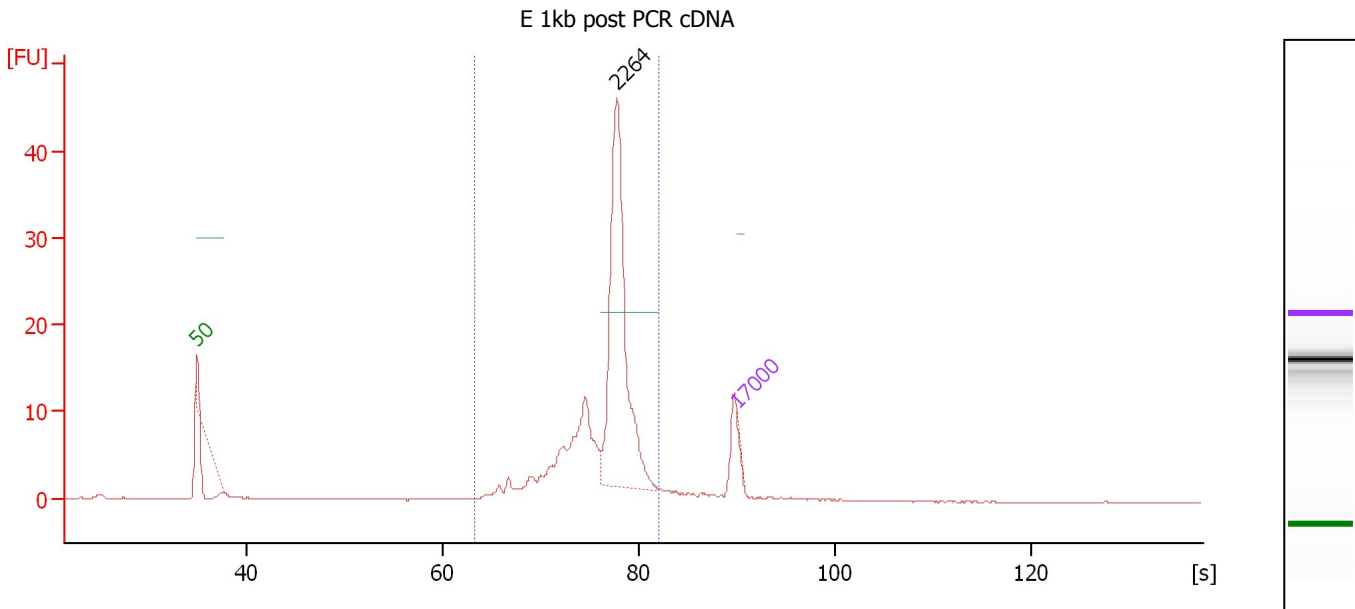
Region table for sample 9 : DCS 3-6kb post PCR cDNA

From [bp]	To [bp]	Average Size [bp]	Conc. [ng/μl]	Col Area or	% of Total	Size distribution in CV [%]
557	8,358	1,720	0.00	85.3	91	61.8

Assay Class: DNA 12000
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-08-18\2014-08-18_002.xad

Created: 8/18/2014 10:29:15 AM
 Modified: 8/18/2014 11:12:52 AM

Electropherogram Summary Continued ...



Overall Results for sample 10 : E 1kb post PCR cDNA

Number of peaks found: 1 Area 1: 92.7

Peak table for sample 10 : E 1kb post PCR cDNA

Peak	Size [bp]	Conc. [ng/μl]	Molarity [nmol/l]	Observations
1	50	8.30	251.5	Lower Marker
2	2,264	0.00	0.0	
3	17,000	4.20	0.4	Upper Marker

Region table for sample 10 : E 1kb post PCR cDNA

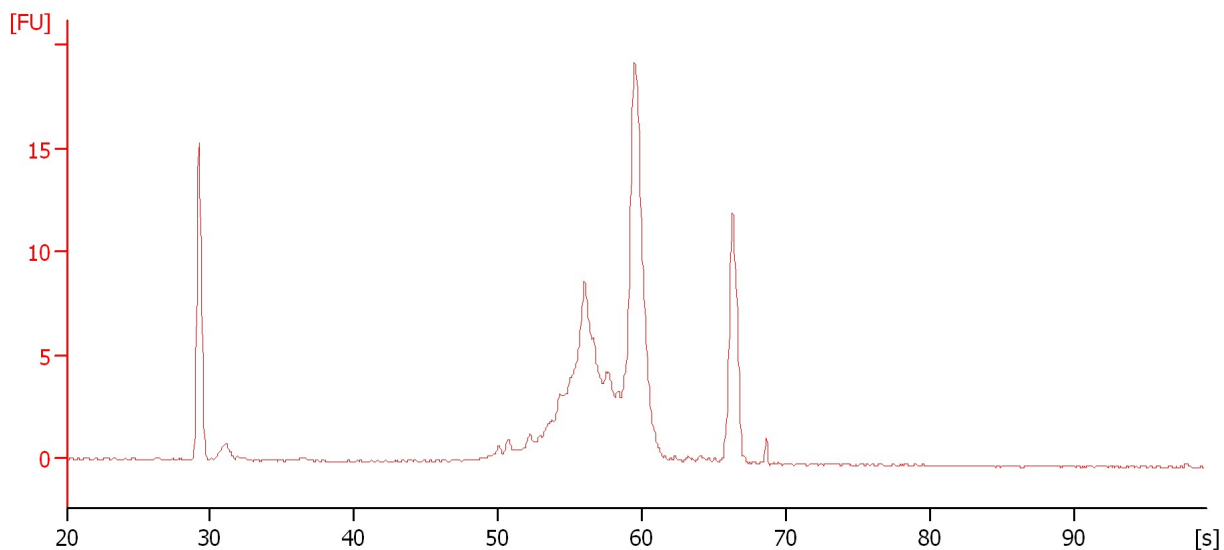
From [bp]	To [bp]	Average Size [bp]	Conc. [ng/μl]	Col Area or	% of Total	Size distribution in CV [%]
623	4,962	1,993	0.00	92.7	87	37.5

Assay Class: DNA 12000
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-08-18\2014-08-18_002.xad

Created: 8/18/2014 10:29:15 AM
Modified: 8/18/2014 11:12:52 AM

Electropherogram Summary Continued ...

E 2kb post PCR cDNA

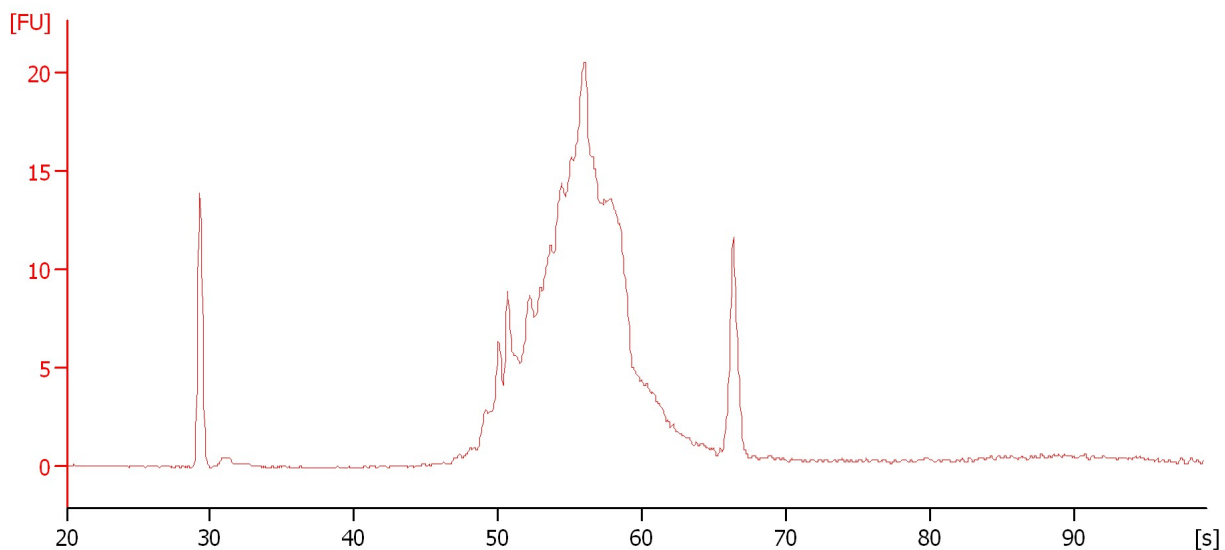


Assay Class: DNA 12000
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-08-18\2014-08-18_002.xad

Created: 8/18/2014 10:29:15 AM
Modified: 8/18/2014 11:12:52 AM

Electropherogram Summary Continued ...

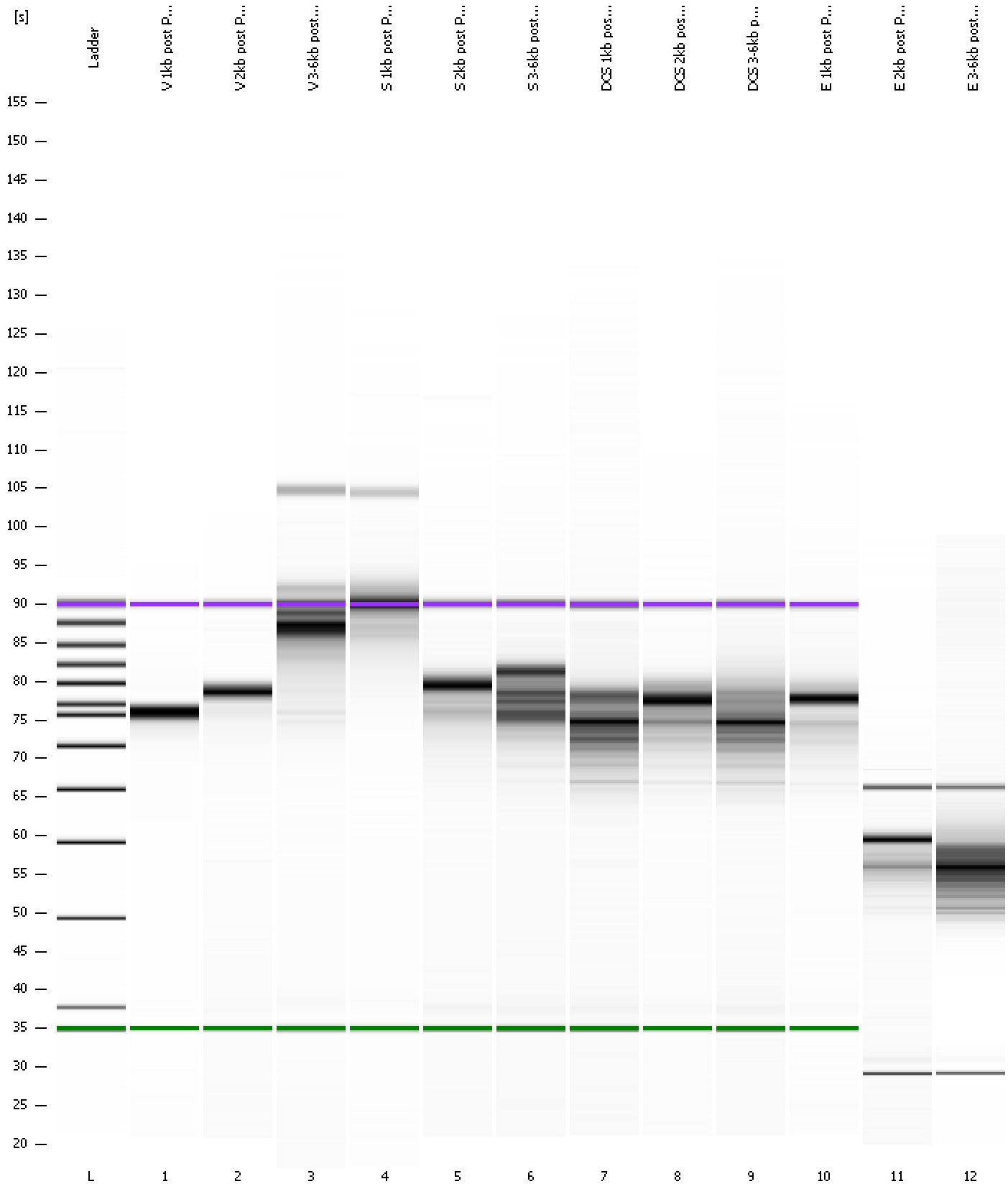
E 3-6kb post PCR cDNA



Assay Class: DNA 12000
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-08-18\2014-08-18_002.xad

Created: 8/18/2014 10:29:15 AM
Modified: 8/18/2014 11:12:52 AM

Gel Image

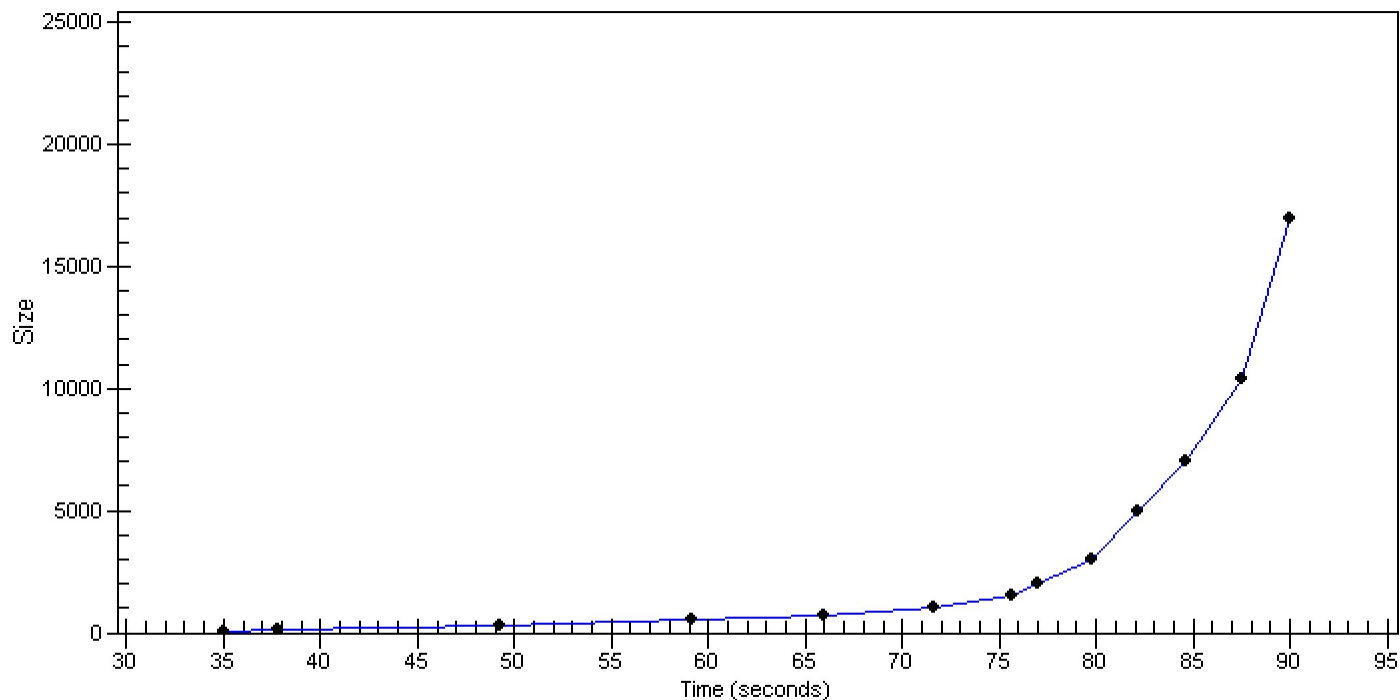


Assay Class: DNA 12000
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-08-18\2014-08-18_002.xad

Created: 8/18/2014 10:29:15 AM
Modified: 8/18/2014 11:12:52 AM

Curves

Standard Curve



Assay Class: DNA 12000
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-08-18\2014-08-18_002.xad

Created: 8/18/2014 10:29:15 AM
 Modified: 8/18/2014 11:12:52 AM

Run Logbook

Description	Number	Source	Category	Sub Category	Time	Time Zone	User	Host
Run ended on port 1 (Number of wells acquired: 13)		Instrument	Run		8/18/2014 11:04:17 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\Data\2014-08-18\2014-08-18_002.xad)		Instrument	Run		8/18/2014 10:29:21 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		8/18/2014 10:29:21 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		8/18/2014 10:29:21 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		8/18/2014 10:29:21 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		8/18/2014 10:29:21 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		8/18/2014 10:29:21 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		8/18/2014 10:29:21 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1